

# STN Columbus

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
 NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates  
 NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency  
 NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02  
 NEWS 6 Mar 08 Gene Names now available in BIOSIS  
 NEWS 7 Mar 22 TOXLIT no longer available  
 NEWS 8 Mar 22 TRCTHERMO no longer available  
 NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/Caplus and USPATFULL  
 NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY  
 NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.  
 NEWS 12 Apr 08 "Ask CAS" for self-help around the clock  
 NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
 NEWS 14 Apr 09 ZDB will be removed from STN  
 NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
 NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
 NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
 NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available  
 NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
 CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
 AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:09:21 ON 26 APR 2002

=> file home

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.84	0.84

FULL ESTIMATED COST

FILE 'HOME' ENTERED AT 11:11:39 ON 26 APR 2002

=> fiel reg

FIEL IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

## STN Columbus

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s metconazole

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> help commands

Enter one of these commands at the arrow prompt (=>).

DELETE ----- Delete saved or current session items.  
DISPLAY ----- Display saved or current session items.  
FILE ----- Specify the search and display file.  
HELP ----- For help on how to use the system.  
INDEX ----- Specify the Index environment.  
LOGOFF ----- End the online session.  
NEWS ----- Display current news about the system.  
ORDER ----- Order an original document or copy.  
SAVE ----- Save an L-numbered query or answer set.  
SET ----- Set terminal and interaction options.  
? ----- The same as HELP.

Enter one of these commands at the arrow prompt (=>).

For more detailed information about a command, enter HELP followed by the command name at an arrow prompt.

Example: => HELP SEARCH

For information on entering multiple commands at a single arrow prompt, enter HELP COMMAND STACKING.

=> help search

The SEARCH command is used to execute a search in the current file.

To use this command, enter SEARCH and a query name or a logic expression. The system will create an L-number answer set containing the results of the search.

A logic expression (profile) consists of L-numbers, E-numbers, text or numeric terms and/or saved query names, joined by Boolean operators and/or by appropriate proximity operators or by numeric operators in numeric expressions.

The order of precedence for the execution of operators is (highest first): numeric operators; (W), (NOTW), (A), and (NOTA); (S) and (NOTS); (P) and (NOTP); (L) and (NOTL); AND and NOT; then OR. Parentheses (nesting) can be used to modify this order. For information on the use of operators, enter HELP OPERATORS at an arrow prompt (=>). Enter HELP NUMERIC for an explanation of how to use numeric terms in a search.

The search terms you choose must be appropriate for the file you are in, e.g., structures can be searched in the REGISTRY file but not in the CAPLUS file. Generic structure files may be searched only with single structures, without logic operators or screen terms.

Ranges of L-numbers and/or E-numbers may be searched as if you had connected them with OR operators. For example, S E3-E6,E12,L2,L9-8

## STN Columbus

would be searched as if you had entered E3 OR E4 OR E5 OR E6 OR E12 OR L2 OR L9 OR L8.

To automatically add plurals for terms in the Basic Index or fields that comprise the Basic Index in a single search in an English language database, include PLURALS=ON in the command line, e.g., SEARCH HEDGE AND CLIPPER PLURALS=ON. For more information on searching plurals automatically, enter HELP SET PLURALS at an arrow prompt).

You may search a phrase in a field that contains single words and an appropriate operator, usually (W), will automatically be inserted between the words in the phrase.

Example:

```
=> SEARCH ACID RAIN AND POLLUTION
    752118 ACID
    5169 RAIN
    1214 ACID RAIN
        (ACID(W) RAIN)
    93061 POLLUTION
L2   1214 ACID RAIN AND POLLUTION
```

If you do not wish to see how a phrase was actually searched, enter SET INTERPRET OFF at an arrow prompt before executing the search. For more information, enter HELP SET INTERPRET.

You may select terms from an answer set in one file and search these terms in the same or another field in the same or another file. For more information on this type of file crossover, enter HELP SMARTSELECT at an arrow prompt. For more information on other types of file crossover, enter HELP CROSSOVER in the file.

You may choose to have the SEARCH command automatically inserted into your input query. To do this, enter SET AUTOSEARCH ON at an arrow prompt. For more information, enter HELP SET AUTOSEARCH.

If a saved query appears in a search, the full name must be entered, including /Q, e.g., SEARCH L3 AND HEDGE/Q NOT SULFUR/Q.

Saved answer sets, L-number lists, and SDI profiles must have L-numbers to be used in the SEARCH command. First ACTIVATE the saved item. Then use the L-number, not the saved name, in the SEARCH command.

Searches can be done on a limited portion of the file. For an explanation, enter HELP SEARCH RANGE at an arrow prompt.

Search terms may be truncated. For information on truncation symbols, enter HELP TRUNCATION at an arrow prompt. To see what terms or symbols may need special care when used in a search, enter HELP RESERVED.

To have L-numbers assigned to intermediate postings in a SEARCH, enter SEARCH STEPS. For more information, enter HELP SEARCH STEPS at an arrow prompt.

With fields for which a thesaurus file exists, search queries may be enriched with additional search terms such as Narrower Terms, Broader Terms, Related Terms, etc. For more information about using a thesaurus in searches, enter HELP THESAURUS at an arrow prompt in the

## STN Columbus

desired file.

When SmartSelect L-numbers are searched, a new SmartSelect L-number can be created that contains those terms for which there were no postings. For more information, enter HELP SET AUDIT at an arrow prompt.

=> s metconazole/cn

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.93	7.77

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 26 APR 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 24 APR 2002 HIGHEST RN 407577-00-8

DICTIONARY FILE UPDATES: 24 APR 2002 HIGHEST RN 407577-00-8

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s metconazole/cn

L1 1 METCONAZOLE/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 125116-23-6 REGISTRY

CN Cyclopentanol, 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Caramba

CN **Metconazole**

FS 3D CONCORD

MF C17 H22 Cl N3 O

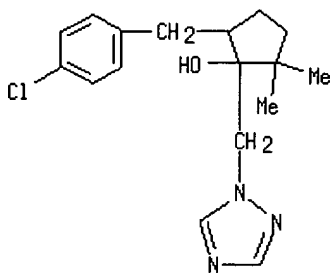
CI COM

SR CA

LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, MRCK\*, PROMT, TOXCENTER, ULIDAT, USPATFULL

(\*File contains numerically searchable property data)

# STN Columbus



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

87 REFERENCES IN FILE CA (1967 TO DATE)  
30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
88 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 2 methylisothiazolin 3 one  
13700279 2  
3 METHYLISOTHIAZOLIN  
10774194 3  
5585064 ONE  
L2 2 2 METHYLISOTHIAZOLIN 3 ONE  
(2 (W) METHYLISOTHIAZOLIN (W) 3 (W) ONE)

=> d 12 1-2

L2 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS  
RN 402750-92-9 REGISTRY  
CN 3(2H)-Isothiazolone, 2-methyl-, mixt. with alkylbenzyltrimethylammonium chlorides (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2-Methylisothiazolin-3-one-benzalkonium chloride mixt.  
MF C4 H5 N O S . Unspecified  
CI MXS, MAN  
SR CA  
LC STN Files: CA, CAPLUS

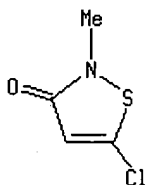
## STRUCTURE DIAGRAM IS NOT AVAILABLE

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS  
RN 26172-55-4 REGISTRY  
CN 3(2H)-Isothiazolone, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 4-Isothiazolin-3-one, 5-chloro-2-methyl- (8CI)  
OTHER NAMES:  
CN 2-Methyl-5-chloro-3-isothiazolone  
CN 2-Methyl-5-chloroisothiazolin-3-one  
CN 5-Chloro-2-methyl-2H-isothiazol-3-one  
CN 5-Chloro-2-methyl-3(2H)-isothiazolone  
CN 5-Chloro-2-methyl-3-isothiazolone  
CN 5-Chloro-2-methyl-4-isothiazolin-3-one  
CN 5-Chloro-2-methylisothiazolin-3-one  
CN 5-Chloro-N-methylisothiazolin-3-one  
CN 5-Chloro-N-methylisothiazolone  
CN Kathon CG 5243  
CN Methylchloroisothiazolinone

# STN Columbus

CN N-Methyl-5-chloroisothiazolin-3-one  
 CN N-Methyl-5-chloroisothiazolone  
 FS 3D CONCORD  
 DR 137662-59-0  
 MF C4 H4 Cl N O S  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN,  
 CSCHEM, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS,  
 NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

666 REFERENCES IN FILE CA (1967 TO DATE)  
 80 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 665 REFERENCES IN FILE CAPLUS (1967 TO DATE)

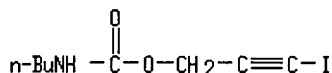
```
=> s 3 iodo 2 propynyl n butylcarbamate
10774194 3
236791 IODO
13700279 2
83990 PROPYNYL
4039655 N
470 BUTYLCARBAMATE
L3 1 3 IODO 2 PROPYNYL N BUTYLCARBAMATE
(3 (W) IODO (W) 2 (W) PROPYNYL (W) N (W) BUTYLCARBAMATE)
```

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS  
 RN 55406-53-6 REGISTRY  
 CN Carbamic acid, butyl-, 3-iodo-2-propynyl ester (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-Iodo-2-propynyl butylcarbamate  
 CN **3-Iodo-2-propynyl N-butylcarbamate**  
 CN 3-Iodopropargyl n-butylcarbamate  
 CN Biodocarb  
 CN Coatcide 123  
 CN Dantogard Plus  
 CN Glycacil  
 CN Guardsan 388  
 CN IPBC  
 CN Omacide IPBC 100  
 CN Polyphase  
 CN Polyphase AF 1  
 CN Thompson's Wood Protector  
 CN Troysan Polyphase P 100

# STN Columbus

CN Troysan Polyphase P 20T  
 CN Troysan Polyphase WD 17  
 FS 3D CONCORD  
 DR 161849-41-8, 104732-42-5, 84826-91-5, 85045-09-6  
 MF C8 H12 I N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA,  
 CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB,  
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS\*,  
 TOXCENTER, ULIDAT, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

324 REFERENCES IN FILE CA (1967 TO DATE)  
 32 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 325 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file medline, ca, caplus, embase, embal, biosis, prompt		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.60	60.37

FILE 'MEDLINE' ENTERED AT 11:34:54 ON 26 APR 2002

FILE 'CA' ENTERED AT 11:34:54 ON 26 APR 2002  
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 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 11:34:54 ON 26 APR 2002  
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 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 11:34:54 ON 26 APR 2002  
 COPYRIGHT (C) 2002 Elsevier Science B.V. All rights reserved.

FILE 'EMBAL' ENTERED AT 11:34:54 ON 26 APR 2002  
 COPYRIGHT (C) 2002 Elsevier Science B.V. All rights reserved.

FILE 'BIOSIS' ENTERED AT 11:34:54 ON 26 APR 2002  
 COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'PROMT' ENTERED AT 11:34:54 ON 26 APR 2002  
 COPYRIGHT (C) 2002 Gale Group. All rights reserved.

=> d his

(FILE 'HOME' ENTERED AT 11:09:21 ON 26 APR 2002)

FILE 'HOME' ENTERED AT 11:11:39 ON 26 APR 2002

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FILE 'REGISTRY' ENTERED AT 11:31:18 ON 26 APR 2002

L1 1 S METCONAZOLE/CN  
 L2 2 S 2 METHYLISOTHIAZOLIN 3 ONE  
 L3 1 S 3 IODO 2 PROPYNYL N BUTYLCARBAMATE

FILE 'MEDLINE, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT' ENTERED AT 11:34:54 ON 26 APR 2002

=&gt; s l2 and l3

L4 42 L2 AND L3

=&gt; dup rem

ENTER L# LIST OR (END):14

PROCESSING COMPLETED FOR L4

L5 21 DUP REM L4 (21 DUPLICATES REMOVED)

=&gt; d l5 1-21 bib, ab, kwic

L5 ANSWER 1 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 1

Full Text

AN 136:136662 CA

TI Antimicrobial composition containing enzymatic biocide

IN Johansen, Charlotte; Aaslyng, Dorrit

PA Novozymes A/S, Den.

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002008377	A1	20020131	WO 2001-DK454	20010629
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 2002028754 A1 20020307 US 2001-899689 20010705 PRAI DK 2000-1121 A 20000721 US 2000-220538P P 20000725				

AB The compn. comprises an enzymic component (haloperoxidase) and  $\geq 1$  kind of non-enzymic biocide (benzoic acid); a method for killing or inhibiting microbial cells comprises treating objectives with the antimicrobial compn.; and a detergent compn. comprises the antimicrobial compn. The invention provides an improved antimicrobial effect.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 99-76-3, Methylparaben 120-47-8, Ethylparaben 2634-33-5,  
 Benzisothiazolone 7782-44-7, Oxygen, biological studies 9000-92-4,  
 Amylase 9001-02-9, Carbohydrase 9001-62-1, Lipase 9001-92-7,  
 Protease 9012-54-8, Cellulase 9025-55-2, Xylanase 9032-75-1,  
 Pectinase 26172-55-4, Methylchloroisothiazolinone 37325-54-5,  
 Arabinase 39346-28-6, Galactanase 51377-41-4, Cutinase 60748-69-8,  
 Mannanase 80498-15-3, Laccase 93229-67-5, Haloperoxidase  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(antimicrobial compn. contg. enzymic biocide)



# STN Columbus

IT 50-00-0, Formaldehyde, biological studies 52-51-7, Bronopol 54-64-8  
 55-56-1, Chlorhexidine 56-95-1, Chlorhexidine diacetate 57-15-8,  
 Chlorobutanol 60-12-8, Phenethyl alcohol 62-38-4, Phenylmercuric  
 acetate 64-17-5, Ethyl alcohol, biological studies 65-85-0, Benzoic  
 acid, biological studies 69-72-7, Salicylic acid, biological studies  
 79-07-2, Chloroacetamide 90-43-7, [1,1'-Biphenyl]-2-ol 94-13-3,  
 Propylparaben 94-18-8, Benzylparaben 94-26-8, Butylparaben 100-51-6,  
 Benzyl alcohol, biological studies 101-20-2 110-44-1, Sorbic acid  
 111-30-8, Glutaraldehyde 121-54-0, Benzethonium chloride 122-99-6,  
 Phenoxyethanol 127-82-2, Zinc phenolsulfonate 141-94-6, Hexetidine  
 520-45-6, Dehydroacetic acid 532-32-1, Sodium benzoate 828-00-2,  
 Dimethoxane 1321-23-9, Chloroxylenol 1330-43-4, Sodium borate  
 2682-20-4, Methylisothiazolinone 3380-34-5, Triclosan 3697-42-5,  
 Chlorhexidine dihydrochloride 4080-31-3, Quaternium 15 4191-73-5,  
 Isopropylparaben 4247-02-3, Isobutylparaben 4418-26-2, Sodium  
 dehydroacetate 6440-58-0 7488-56-4, Selenium disulfide 7681-55-2,  
 Sodium iodate 10043-35-3, Boric acid, biological studies 12041-76-8,  
 Dichlorobenzyl alcohol 13463-41-7, Zinc pyrithione 18472-51-0,  
 Chlorhexidine digluconate 24634-61-5, Potassium sorbate 30007-47-7,  
 5-Bromo-5-nitro-1,3-dioxane 31512-74-0, Polyquaternium 42 35691-65-7  
 39236-46-9, Imidazolidinyl urea 55406-53-6 68890-66-4,  
 Piroctone olamine 70161-44-3, Sodium hydroxymethylglycinate 88841-33-2  
 133029-32-0, Polyaminopropyl biguanide 214542-29-7, Dimethyl  
 hydroxymethyl pyrazole  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (non-enzymic biocides; antimicrobial compn. contg. enzymic biocide)

L5 ANSWER 2 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 2

## Full Text

AN 134:143275 CA  
 TI Microbicidal compositions and methods using combinations of propiconazole  
 and N-alkyl heterocycles and salts thereof  
 IN Oppong, David; Whittemore, Marilyn S.; Ellis, M. Sheldon; Miller, Robert  
 H.; Zhou, Xiangdong; Elmore, Michael E.  
 PA Buckman Laboratories International, Inc., USA  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001010217	A1	20010215	WO 2000-US20269	20000726
	W: AU, BR, CA, CN, FI, JP, MX, NZ, SG, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	BR 2000013331	A	20020402	BR 2000-13331	20000726
PRAI	US 1999-369298	A	19990806		
	WO 2000-US20269	W	20000726		
OS	MARPAT 134:143275				
AB	A method for increasing the effectiveness of the microbicide propiconazole, (RS)-1-2-[(2,4-dichlorophenyl)-2-propyl-1,3-dioxalan- 2ylmethyl]-1H-1,2,4-triazol, is described. In the method, propiconazole and a potentiator, an N-alkyl heterocyclic compd., its salt, or a mixt. thereof, are applied to a substrate or aq. system subject to the growth of microorganisms. The N-alkyl heterocyclic compd. CH <sub>3</sub> -CnH <sub>2n</sub> -(NR) [n = 5-17; (NR) = (un)substituted ring with 4-8 members], its salt, or a mixt. thereof is applied in an amt. effective to increase the microbicidal activity of the microbicide. Microbicidal compns. are described where propiconazole and an N-alkyl heterocyclic compd., its salt, or a mixt. thereof are present in a combined amt. effective to control the growth of				

## STN Columbus

at least one microorganism. Methods for controlling the growth of microorganisms on various substrates and in various aq. systems are also described. The combination of propiconazole and N-alkyl heterocyclic compd., its salt, or a mixt. thereof is particularly useful as microbicidal in the leather industry, the lumber industry, the papermaking industry, the textile industry, the agricultural industry, and the coating industry, as well as in industrial process waters.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 52-51-7, 2-Bromo-2-nitropropane-1,3-diol 1725-82-2, Iodopropargyl alcohol 1875-92-9D, Dimethylbenzyl ammonium chloride, N-Alkyl 2492-26-4, Sodium 2-mercaptobenzothiazole 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 2682-20-4, 2-Methyl-4-isothiazolin-3-one 3064-70-8, Bis(trichloromethyl)sulfone 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 25376-38-9, Tribromophenol 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6 129348-50-1  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(microbicide in microbicidal compns. contg. propiconazole and N-alkyl heterocycles)

L5 ANSWER 3 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 3

Full Text

AN 134:61605 CA  
TI Coating for protecting sanitary ware against contamination  
IN De Broissia, Gerald; Hulak, Isabelle  
PA S.A.H.F.F.F. Haut Fourneau, Forges et Fonderies, Fr.  
SO PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001000022	A1	20010104	WO 2000-FR1750	20000623
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	FR 2795328	A1	20001229	FR 1999-8013	19990623
PRAI	FR 1999-8013	A	19990623		

AB The invention concerns a method for protecting users of sanitary ware, such as toilet seats, against biol. contamination by contact, which consists in painting the items with an anticontaminating coating compn. comprising a biocide, including a bactericide, in a proportion of 0.3-6 wt. %, preferably 0.5-5 wt. %, relative to the coating total wt. The the bactericide is an isothiazole deriv., combined with a aryloxy alc., and preferably with a fungicide, such as an alkylisothiazolinone and/or derivs. of benzimidazole or of iodopropynylcarbamate.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 112-37-8, Undecanoic acid 122-99-6, Phenoxyethanol 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 2682-20-4 26172-55-4, 5-Chloro-2-methyl-3-isothiazolinone 26530-20-1, 2-Octyl-3-isothiazolinone 37953-07-4 55406-53-6 61805-96-7, Dimethylthiourea  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

## STN Columbus

(Biological study); USES (Uses)  
(biocidal coating of sanitary ware contg.)

L5 ANSWER 4 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 4

Full Text

AN 134:163069 CA  
TI Preparation of molecular compounds containing tri-o-thymotides  
IN Kan, Shigemi; Suzuki, Hiroyuki  
PA Nippon Soda Co., Ltd., Japan  
SO Jpn. Kokai Tokyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001039971	A2	20010213	JP 1999-214305	19990728
OS	MARPAT 134:163069				
AB	The compds. comprise tri-o-thymotides I (R1-R12 = H, C1-6 alkyl; X = O, S) and bactericides, fungicides, insecticides, insect repellents, perfumes, deodorants, antifouling agents, curing agents for coatings, plastics, or adhesives, curing accelerators, essential oils, antioxidants, or vulcanization accelerators. Tri-o-thymotide was treated with 5-chloro-2-methyl-4-isothiazolin-3-one in MeOH at room temp. for 24 h to give powders of 1:1 mol. compd.				
IT	52-51-7, 2-Bromo-2-nitropropane-1,3-diol 878-03-5 1897-45-6, 2,4,5,6-Tetrachloroisophthalonitrile 1897-50-3, 5-Chloro-2,4,6-trifluoroisophthalonitrile 3696-28-4 4399-52-4, Tri-o-thymotide 13108-52-6 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 29772-02-9 42778-72-3, 2,3,3-Triiodoallyl alcohol 55406-53-6, 3-Iodopropargyl N-butylcarbamate 138569-63-8 324745-70-2 RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. of mol. compds. contg. tri-o-thymotides)				

L5 ANSWER 5 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 5

Full Text

AN 135:124156 CA  
TI Bactericide combinations in detergents  
IN Elsmore, Richard; Houghton, Mark Phillip  
PA Robert McBride Ltd., UK  
SO Brit. UK Pat. Appl., 53 pp.  
CODEN: BAXXDU  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2354771	A1	20010404	GB 1999-23253	19991001
AB	The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric surfactant which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing redn. activity after contact 2.				
IT	7757-83-7 7758-02-3, Potassium bromide (KBr), uses 7758-19-2 7758-89-6, Copper chloride (CuCl) 7758-98-7, Sulfuric acid copper(2+) salt (1:1), uses 7758-99-8 7775-09-9 7775-27-1 7778-39-4, Arsenic acid (H3AsO4) 7778-43-0 7778-50-9 7778-54-3 7778-66-7 7779-27-3 7779-73-9 7779-78-4 7779-81-9 7782-44-7, Oxygen, uses 7782-50-5, Chlorine, uses 7783-20-2, Sulfuric acid diammonium salt, uses 7783-90-6, Silver chloride (AgCl), uses 7786-29-0 7786-30-3, Magnesium				

# STN Columbus

chloride (MgCl<sub>2</sub>), uses 7789-09-5 7789-12-0 7789-29-9, Potassium  
fluoride (K(HF<sub>2</sub>)) 7789-33-5, Iodine bromide (IBr) 7790-28-5  
7790-99-0, Iodine chloride (ICl) 7803-51-2, Phosphine 8000-41-7,  
Terpineol 8007-35-0 9001-37-0 9002-91-9 9003-07-0D, Polypropylene,  
phenol derivs. 9003-29-6 9003-63-8 9003-99-0, Peroxidase 9004-82-4  
9004-98-2 10028-15-6, Ozone, uses 10031-43-3 10032-15-2  
10043-35-3, Boric acid (H<sub>3</sub>BO<sub>3</sub>), uses 10049-04-4, Chlorine oxide (ClO<sub>2</sub>)  
10058-23-8 10101-41-4 10124-37-5 10154-75-3 10187-52-7  
10198-23-9 10222-01-2 10235-63-9 10294-64-1 10332-33-9  
10339-55-6 10345-79-6 10377-60-3 10378-23-1 10380-28-6  
10453-86-8 10460-00-1 10482-56-1 10486-00-7 10543-57-4  
10588-01-9 10588-15-5 10595-49-0 10605-21-7 10605-21-7D, Methyl  
1H-benzimidazol-2-ylcarbamate, compds. with benzenesulfonic acid  
mono-C10-14-alkyl derivs. 11031-45-1, Santalol 11050-62-7  
11084-85-8, Sodium hypochlorite phosphate (Na13(ClO)(PO<sub>4</sub>)<sub>4</sub>) 11096-42-7  
12008-41-2, Boron sodium oxide (B<sub>8</sub>Na<sub>2</sub>O<sub>13</sub>) 12062-24-7 12069-69-1  
12122-67-7 12124-97-9, Ammonium bromide ((NH<sub>4</sub>)Br) 12179-04-3  
12267-73-1 12280-03-4 12427-38-2 13014-03-4 13019-22-2,  
9-Decen-1-ol 13052-19-2 13108-52-6 13149-79-6 13167-25-4  
13197-76-7 13254-34-7 13351-61-6 13426-91-0 13435-05-7  
13463-41-7 13463-67-7, Titanium oxide (TiO<sub>2</sub>), uses 13516-27-3  
13517-11-8, Hypobromous acid 13532-18-8 13590-97-1 13701-59-2  
13707-65-8 13720-12-2 13755-29-8 13824-96-9 13826-83-0  
13840-33-0 13863-41-7, Bromine chloride (BrCl) 13877-91-3 13980-04-6  
14073-97-3 14371-10-9 14548-60-8 14576-08-0 14667-55-1  
14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched 14762-38-0  
14816-18-3 14915-37-8 14936-67-5 15323-35-0 15435-29-7  
15510-55-1 15627-09-5 15630-89-4 15707-23-0 15733-22-9  
15739-09-0 15809-19-5 15986-80-8 16079-88-2 16219-75-3D,  
5-Ethylidenebicyclo[2.2.1]hept-2-ene, reaction products with boron  
trifluoride and 2-propanol 16228-00-5 16409-43-1 16491-36-4  
16752-77-5 16828-95-8 16871-71-9 16893-85-9 16919-19-0  
16949-65-8 16961-83-4 17084-08-1 17342-21-1 17804-35-2  
18181-70-9 18181-80-1 18205-85-1 18339-16-7 18472-51-0  
18479-54-4 18479-57-7 18675-16-6 18675-17-7 18794-84-8  
18829-56-6 18854-01-8 18972-56-0 19014-05-2 19093-20-0  
19379-90-9 19388-87-5 19578-81-5 19766-89-3 19819-98-8  
19870-74-7 20013-73-4 20018-09-1 20543-04-8 20545-92-0  
20662-57-1 20679-58-7 20834-59-7 20859-73-8, Aluminum phosphide  
(AlP) 21129-27-1 21145-77-7 21564-17-0 21757-82-4 21834-92-4  
22009-37-6 22205-45-4, Copper sulfide (Cu<sub>2</sub>S) 22221-10-9 22248-79-9  
22781-23-3 22882-89-9 22882-91-3 22936-75-0 22981-54-0  
23031-36-9 23495-12-7 23560-59-0 23564-05-8 23726-92-3  
23726-94-5 23787-90-8 24019-05-4 24048-13-3 24111-17-9  
24124-25-2 24291-45-0 24634-61-5 24720-09-0 24851-98-7  
25068-14-8 25155-18-4 25155-29-7 25167-82-2 25225-10-9  
25254-50-6 25265-71-8 25304-14-7 25377-70-2 25628-84-6  
25655-41-8 25988-97-0 26002-80-2 26062-79-3 26172-55-4  
26248-98-6 26354-18-7 26530-03-0 26530-20-1 26545-49-3  
26617-87-8 26635-93-8 26781-23-7 27083-27-8 27176-87-0  
27236-65-3 27253-29-8 27323-41-7 27697-50-3 28069-74-1  
28159-98-0 28219-61-6 28302-36-5 28387-62-4

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(bactericide combinations in detergents)

IT 28434-00-6 28434-01-7 28558-32-9 28645-51-4, Oxacycloheptadec-10-en-  
2-one 28728-61-2 28772-56-7 28777-01-7 28805-58-5 29232-93-7  
29350-73-0 29463-06-7 29873-30-1 29873-33-4 29973-13-5  
30007-47-7 30388-01-3 30560-19-1 30772-79-3 31075-24-8  
31195-95-6 31218-83-4 31501-11-8 31512-74-0 31906-04-4  
32276-75-8 32289-58-0 32388-55-9 33089-61-1 33704-61-9  
33939-64-9 33972-49-5 34375-28-5 34395-72-7 34413-35-9

# STN Columbus

34681-10-2 34911-46-1 35109-57-0 35206-70-3 35285-68-8  
 35285-69-9 35367-38-5 35445-70-6 35554-44-0 35575-96-3  
 35691-65-7 35950-52-8 36059-35-5 36362-09-1 36631-23-9  
 36734-19-7 37139-99-4 37228-06-1 37306-10-8, Chromium copper boride  
 38083-17-9 38260-54-7 38460-95-6D, 10-Undecenoyl chloride, reaction  
 products with protein hydrolyzates, potassium salts 38465-60-0  
 38664-03-8 38811-14-2 39236-46-9 39300-45-3 39354-45-5  
 39515-40-7 39650-63-0, 1H-Benzimidazole-2-pentanamine 39660-17-8  
 39758-90-2 40027-80-3 40188-41-8 40596-69-8 41096-46-2  
 41877-16-1 42370-07-0 42436-34-0 42534-61-2 43143-11-9  
 44992-01-0 46830-22-2 46917-07-1 50542-90-0 50650-76-5  
 51015-28-2 51015-29-3 51026-28-9 51200-87-4 51566-62-2  
 51580-86-0 51630-58-1 52299-20-4 52304-36-6 52315-07-8  
 52513-11-8 52645-53-1 52684-21-6 52684-23-8 52918-63-5  
 53082-58-9 53488-14-5 53720-80-2 53727-58-5 54262-78-1  
 54406-48-3 54427-07-5, Copper boride 54464-57-2 54720-15-9  
 54779-21-4 55142-08-0 55406-53-6 55566-30-8 55722-59-3  
 55965-84-9 56073-07-5 56073-10-0 56148-34-6 56148-37-9  
 56148-40-4 56289-76-0 56427-82-8 56709-13-8 56996-62-4, Glokill 77  
 57006-76-5 57382-78-2 57413-95-3 57503-06-7 57520-17-9  
 57576-09-7 57837-19-1 58206-95-4 58249-25-5 58769-20-3  
 59323-76-1 59324-17-3 59355-53-2, Citrex S 5 60114-62-7D,  
 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl  
 derivs., inner salts 60168-88-9 60207-31-0 60207-90-1 60239-68-1  
 60568-05-0 60736-58-5 60763-40-8 60784-31-8 60812-23-9  
 61692-81-7 61692-84-0 61702-91-8 61842-86-2 62476-84-0D,  
 Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs., acetates  
 62755-21-9 63085-03-0 63333-35-7 63500-71-0 63619-09-0  
 63943-38-4 64359-81-5 64440-88-6 64628-44-0 64665-57-2  
 64988-06-3 65059-43-0 65289-97-6 65289-98-7 65290-00-8  
 65400-98-8 65630-22-0 65694-09-9 65733-16-6 65733-18-8  
 66062-78-0 66063-61-4 66065-55-2D, Benzenemethanaminium,  
 N-(3-aminopropyl)-N,N-dimethyl-, chloride, N-coco acyl derivs.  
 66091-24-5D, 1-Propanaminium, 3-amino-N-ethyl-N,N-dimethyl-, N-lanolin  
 acyl derivs., Et sulfates 66204-44-2 66215-27-8 66789-18-2  
 66841-25-6 67100-72-5 67171-34-0 67185-04-0 67228-83-5  
 67485-29-4 67508-69-4 67633-95-8 67633-98-1 67633-99-2  
 67634-01-9 67634-12-2 67634-14-4 67634-15-5 67634-25-7  
 67634-26-8 67747-09-5 67772-01-4 67801-33-6 67801-44-9  
 67801-47-2 67845-46-9 67846-68-8 68085-85-8 68134-42-9  
 68155-66-8 68155-67-9 68188-98-7 68213-85-4 68224-19-1  
 68359-37-5 68480-15-9 68480-16-0 68527-77-5 68527-84-4  
 68738-96-5 68797-57-9 68890-66-4 68901-15-5 68929-85-1  
 68959-20-6 68991-96-8 68991-97-9 69094-18-4 69153-35-1  
 70161-44-3 70680-04-5 70680-05-6 70754-17-5 70775-75-6  
 70788-30-6 70799-70-1 70862-65-6 71297-57-9 71297-58-0  
 71297-59-1 71646-36-1 72089-08-8 72490-01-8 72963-72-5  
 73264-51-4 73337-96-9D,  $\beta$ -Alanine, N-(2-aminoethyl)-N-(2-  
 hydroxyethyl)-, N-C8-18-acyl derivs. 74774-67-7  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)

L5 ANSWER 6 OF 21 CA COPYRIGHT 2002 ACS

DUPLICATE 6

Full Text

AN 133:152129 CA

TI Antimicrobial and anticlogging ink-jet inks

IN Morimoto, Hitoshi; Kato, Hisato; Kita, Yoko; Ishihara, Hiromi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

## STN Columbus

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000226545	A2	20000815	JP 1999-346264	19991206
PRAI	JP 1998-346245	A	19981204		
OS	MARPAT 133:152129				
AB	Title aq. inks contain antimicrobial agents having min. inhibitory concn. (MIC1) to bacteria ( <i>Bacillus subtilis</i> ) of larger than the min. inhibitory concn. (MIC2) to mildew ( <i>aspergillus niger</i> ) and antimicrobial agents having MIC1 < MIC2. An aq. ink contg. C.I. direct blue 199 4, glycerol 20, 1,2-benzisothiazolin-3-one 0.05, and 4-chloro-3-methylphenol 0.05% showed no clogging in a continuously jet-printing process over 108 runnings and gave prints with reflective d. of 0.7.				
IT	52-51-7, 2-Bromo-2-nitropropane-1,3-diol 59-50-7, 4-Chloro-3-methylphenol 132-27-4, Sodium o-phenylphenol 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 2682-20-4 3811-73-2, Sodium 2-pyridinethiol-1-oxide 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 35691-65-7, 2-Bromo-2-bromomethylglutaronitrile 55406-53-6, 3-Iodo-2-propynylbutyl carbamate 82633-79-2, 2-Methyl-4,5-trimethylene-4-isothiazolin-3-one				
	RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (mildewcide and bactericide blend-contg. aq. ink-jet inks with long-lasting clogging prevention)				

L5 ANSWER 7 OF 21 CA COPYRIGHT 2002 ACS

DUPLICATE 7

Full Text

AN 131:28899 CA

TI Industrial microbicides containing alkylamine-triphenylboranes and other organic microbicides and disinfection using them

IN Tsuji, Katsuji; Ito, Seigo

PA Katayama Chemical, Inc., Japan

SO Jpn. Kokai Tokyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11130610	A2	19990518	JP 1997-300909	19971031
OS	MARPAT 131:28899				
AB	The microbicides contain (a) Ph <sub>3</sub> BNHR (I; R = C <sub>3</sub> -30 alkyl) and (b) org. N- and S-contg. microbicides, org. Br compds., org. N compds., or org. S compds. as active ingredients and show broad-spectrum activity. Disinfection is performed by simultaneously or sep. adding (a) and (b) to materials to be disinfected, e.g. papermaking water, starch slurry, latex, inks, wallpapers, cutting oils, etc. Shaking of a starch slurry in the presence of I (R = octadecyl) and 5-chloro-2-methyl-isothiazolin-3-one (1:1) at 30° for 7 days significantly decreased viable cells ( <i>Pseudomonas</i> , <i>Alcaligenes</i> , <i>Bacillus</i> , <i>Cladosporium</i> ).				
IT	52-51-7D, 2-Bromo-2-nitro-1,3-propanediol, mixts. with alkylamine-triphenylboranes 148-79-8D, 2-(4'-Thiazolyl) benzimidazole, mixts. with alkylamine-triphenylboranes 1192-52-5D, 4,5-Dichloro-1,2-dithiol-3-one, mixts. with alkylamine-triphenylboranes 1897-45-6D, 2,4,5,6-Tetrachloroisophthalonitrile, mixts. with alkylamine-triphenylboranes 2634-33-5D, 1,2-Benzisothiazolin-3-one, mixts. with alkylamine-triphenylboranes 6317-18-6D, Methylene bithiocyanate, mixts. with alkylamine-triphenylboranes 10222-01-2D, 2,2-Dibromo-3-nitrilopropionamide, mixts. with alkylamine-triphenylboranes 10605-21-7D, 2-Methoxycarbonylaminobenzimidazole, mixts. with alkylamine-triphenylboranes 13108-52-6D, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine, mixts. with alkylamine-triphenylboranes				

## STN Columbus

13463-41-7 20018-09-1D, Diiodomethyl p-tolyl sulfone, mixts. with  
alkylamine-triphenylboranes 21564-17-0D, mixts. with  
alkylamine-triphenylboranes 26172-55-4D, mixts. with  
alkylamine-triphenylboranes 26530-20-1D, 2-n-Octyl-isothiazolin-3-one,  
mixts. with alkylamine-triphenylboranes 55406-53-6D,  
3-Iodo-2-propynyl butylcarbamate, mixts. with alkylamine-triphenylboranes  
64359-81-5D, mixts. with alkylamine-triphenylboranes 69094-18-4D,  
2,2-Dibromo-2-nitroethanol, mixts. with alkylamine-triphenylboranes  
226936-23-8 226936-27-2 226936-30-7 226936-32-9 226936-36-3  
226936-39-6 226936-42-1 226936-44-3 226936-46-5 226936-49-8  
226936-51-2 226936-54-5 226936-57-8 226936-59-0 226936-60-3  
226936-61-4 226936-62-5 226936-64-7 226936-66-9 226936-69-2  
226936-72-7 226936-75-0 226936-76-1 226936-78-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
study, unclassified); BUU (Biological use, unclassified); TEM (Technical  
or engineered material use); BIOL (Biological study); USES (Uses)  
(broad-spectrum industrial microbicides contg. alkylamine-  
triphenylboranes and other org. microbicides)

L5 ANSWER 8 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 8

Full Text

AN 130:297668 CA  
TI Antibacterial starch adhesives  
IN Sano, Genzo  
PA Yayoi Kagaku Kogyo K. K., Japan  
SO Jpn. Kokai Tokyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11092726	A2	19990406	JP 1997-273277	19970922
AB	Title adhesives are obtained by mixing starch components, ZnO or MgO, and disinfectants or fungicides in neutral or acid atm. Thus, a mixt. (pH 5.0) of starch adhesive 100, ZnO 0.5, and trichlosan 0.1 part showed good antibacterial properties.				
IT	50-00-0, Formaldehyde, uses 56-35-9 88-04-0, PCMX 90-43-7, o-Phenylphenol 92-69-3, p-Phenylphenol 123-03-5, Cetylpyridinium chloride 133-06-2, N-(Trichloromethylthio)tetrahydrophthalimide 137-26-8, Tetramethylthiuram disulfide 137-40-6, Sodium propionate 139-07-1, Dimethyl-laurylbenzylammonium chloride 148-79-8, 2-(4-Thiazolyl)benzimidazole 532-32-1, Sodium benzoate 1897-45-6, 2,4,5,6-Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 3380-34-5 4418-26-2, Sodium dehydroacetate 10605-21-7, Methyl-2-benzimidazole carbamate 13108-52-6 17648-71-4, N,N'-Dimethyl-N'-phenyl-N-(fluorodichloromethylthio)sulfamide 17804-35-2 18472-51-0 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6 77352-88-6				
	RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses) (acidic or neutral starch adhesives contg. ZnO or MgO and disinfectants or fungicides)				

L5 ANSWER 9 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 9

Full Text

AN 131:318952 CA  
TI Polymeric controlled-release microbicides  
IN Ghosh, Tirthankar  
PA Rohm and Haas Company, USA  
SO Eur. Pat. Appl., 14 pp.

## STN Columbus

CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 954966	A1	19991110	EP 1999-303342	19990428
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9923922	A1	19991111	AU 1999-23922	19990422
	NO 9902097	A	19991108	NO 1999-2097	19990430
	CN 1234414	A	19991110	CN 1999-105299	19990430
	BR 9901418	A	20010313	BR 1999-1418	19990504
	JP 2000001401	A2	20000107	JP 1999-125929	19990506
PRAI	US 1998-84317P	P	19980505		

AB Microbicides, such as isothiazolone derivs., are incorporated into hydroxystyrene polymers for controlled-release. Applications include biocidal treatment of cooling towers, mineral slurries, adhesives, caulks, mastics, sealants, leather, plastics, wood, marine structures, etc.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 52-51-7 101-20-2, 3,4,4'-Trichlorocarbanilide 137-26-8, Tetramethylthiuram disulfide 137-30-4, Zinc dimethyldithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5 6317-18-6, Methylene bithiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zineb 12427-38-2, Maneb 13108-52-6, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine 13167-25-4, 2,4,6-Trichlorophenylmaleimide 13463-41-7, Zinc 2-pyridinethiol 1-oxide 20018-09-1, Diiodomethyl p-tolyl sulfone 21564-17-0, 2-Thiocyanomethylthiobenzothiazole 25658-72-4 26172-55-4 26530-20-1, 2-Octyl-3-isothiazolone 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 39758-90-2 55406-53-6, 3-Iodo-2-propynylbutylcarbamate 64440-88-6 67412-55-9, N,N-Dimethyldichlorophenylurea 82633-79-2 107846-11-7, Bromochlorodimethylhydantoin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(polymer-incorporated biocide for controlled-release)

L5 ANSWER 10 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 10

Full Text

AN 131:318951 CA  
TI Controlled-release microbicidal compositions  
IN Ghosh, Tirthankar  
PA Rohm and Haas Company, USA  
SO Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 954965	A1	19991110	EP 1999-303343	19990428
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9923924	A1	19991111	AU 1999-23924	19990422
	NO 9902098	A	19991108	NO 1999-2098	19990430
	CN 1234178	A	19991110	CN 1999-105298	19990430
	BR 9901414	A	20010313	BR 1999-1414	19990504



## STN Columbus

JP 2000001403 A2 20000107 JP 1999-125926 19990506  
 PRAI US 1998-84221P P 19980505  
 OS MARPAT 131:318951  
 AB Thus title compns. comprise a microbicide, such as an isothiazolone deriv. and a calixarene compd. Applications include microbiol. control in cooling towers, air washers, mineral slurries, paper manuf., adhesives, caulks, mastics, sealants, cosmetics, leather, wood, plastics, etc., as well as use as marine antifouling compns.  
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 IT 52-51-7 101-20-2, 3.4.4'-Trichlorocarbanilide 137-26-8, Tetramethylthiuram disulfide 137-30-4, Zincdimethyldithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5 6317-18-6, Methylene bis thiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zineb 12427-38-2 13108-52-6 13167-25-4, 2,4,6-Trichlorophenylmaleimide 13463-41-7, Zinc 2-pyridinethiol 1-oxide 20018-09-1, Diiodomethyl-p-tolyl sulfone 21564-17-0, 2-Thiocyanatomethylthiobenzothiazole 26172-55-4 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 39758-90-2 55406-53-6, 3-Iodo-2-propynyl butylcarbamate 55986-03-3, N,N-Dimethylchlorophenylurea 64359-81-5, 4,5-Dichloro-2-octyl-3-isothiazolone 64440-88-6 107846-11-7, BromochloroDimethylhydantoin 216006-67-6 248588-12-7  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (microbicide formulated as a controlled-release compn.)

L5 ANSWER 11 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 11

Full Text

AN 131:40955 CA  
 TI Controlled-release compositions containing agricultural pesticide, microbicide or antifouling agent incorporated into metal oxide glass  
 IN Ghosh, Tirthankar; Nungesser, Edwin Hugh  
 PA Rohm and Haas Company, USA  
 SO Eur. Pat. Appl., 18 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 922386	A2	19990616	EP 1998-309692	19981125
	EP 922386	A3	20000126		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6090399	A	20000718	US 1998-189479	19981110
	AU 9895159	A1	19990701	AU 1998-95159	19981201
	BR 9805326	A	20000314	BR 1998-5326	19981209
	JP 11263702	A2	19990928	JP 1998-352346	19981211
	CN 1232610	A	19991027	CN 1998-123093	19981211
PRAI	US 1997-69243P	P	19971211		

AB Disclosed are controlled-release compns. contg. biol. active compds. incorporated into metal oxide glass having a porous matrix which is prepd. by polymg. one or more metal alkoxide monomers, optionally in the presence of a second metal alkoxide monomer. These compns. may be directly incorporated into the locus to be protected or may be applied to a structure in a coating. Thus, tetraethoxy orthosilicate and methyltriethoxy orthosilicate (mole ratio 4:1), 4,5-dichloro-2-n-octyl-3-

## STN Columbus

isothiazolone (5% by wt. of the final product), and water (mole ratio of alkoxide monomers to water 1:2) were combined in a flask and homogenized by adding methanol or ethanol while stirring; then, 8-10 g of 0.01N HCl per mol of metal alkoxide monomer was added to the reaction mixt., which was allowed to polymerize at room temp. for 3-60 days to give a solid organometallic oxide glass contg. the biol. active compd. The cumulative percentages of 4,5-dichloro-2-n-octyl-3-isothiazolone released were 5, 30, 41, 50 and 64% by wt. in 0, 0.5, 2, 31, and 144 h.

IT 2682-20-4, 2-Methyl-3-isothiazolone 26172-55-4 28159-98-0,  
2-(Methylthio)-4-tert-butylamino-6-(cyclopropylamino)-s-triazine  
55406-53-6, 3-Iodo-2-propynyl butyl carbamate 64359-81-5,  
4,5-Dichloro-2-n-octyl-3-isothiazolone  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or  
chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(controlled-release compns. contg. agricultural pesticide, microbicide  
or antifouling agent incorporated into metal oxide glass)

L5 ANSWER 12 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 12

Full Text

AN 130:193103 CA  
TI Controlled-release solid biocidal compositions  
IN Ghosh, Tirthankar  
PA Rohm and Haas Company, USA  
SO Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 897666	A1	19990224	EP 1998-306217	19980804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AU 9878655	A1	19990225	AU 1998-78655	19980803
	TW 450786	B	20010821	TW 1998-87112936	19980806
	NO 9803624	A	19990215	NO 1998-3624	19980807
	CN 1208561	A	19990224	CN 1998-118423	19980813
	BR 9803150	A	19991123	BR 1998-3150	19980813
	JP 11116412	A2	19990427	JP 1998-229608	19980814
	US 6149927	A	20001121	US 1998-134318	19980814
PRAI	US 1997-55750P	P	19970814		

AB The title compns. contain a biocide and zirconium hydroxide. Suitable biocides are 2-octyl-4-isothiazolin-3-one, 4,5-dichloro-2-octyl-4-isothiazolin-3-one, 5-chloro-2-methyl-4-isothiazolin-3-one, etc. Areas or utilization include cooling towers, air washers, mineral slurries, pulp and paper processing fluids, swimming pools, adhesives, wood, leather, marine structures, etc.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 52-51-7, 2-Bromo-2-nitro-1,3-propanediol 101-20-2, 3,4,4'-  
Trichlorocarbanilide 126-06-7 1897-45-6, 2,4,5,6-  
Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one  
2682-20-4, 2-Methyl-4-isothiazolin-3-one 3489-81-4, 2-(2,4-  
Dichlorophenoxy)phenol 3811-73-2, Sodium 2-pyridinethiol-1-oxide  
6317-18-6, Methylenebis(thiocyanate) 10222-01-2, 2,2-Dibromo-3-  
nitrilopropionamide 13463-41-7, Zinc 2-pyridinethiol-1-oxide  
21564-17-0, 2-(Thiocyanomethylthio)benzothiazole 26172-55-4,  
5-Chloro-2-methyl-4-isothiazolin-3-one 26530-20-1, 2-Octyl-4-  
isothiazolin-3-one 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane  
55406-53-6 64359-81-5 82633-79-2  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

## STN Columbus

(controlled-release solid biocidal compns. contg.)

L5 ANSWER 13 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 13

Full Text

AN 129:1699 CA  
 TI Pesticide and microbicide microemulsions  
 IN Nowak, Milton  
 PA Troy Corp., USA  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9818321	A1	19980507	WO 1997-US19204	19971029
	W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	US 5827522	A	19981027	US 1996-741038	19961030
	AU 9850865	A1	19980522	AU 1998-50865	19971029
	AU 736800	B2	20010802		
	BR 9712397	A	19990831	BR 1997-12397	19971029
	EP 957684	A1	19991124	EP 1997-913750	19971029
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
	NO 9902068	A	19990629	NO 1999-2068	19990429
	KR 2000052895	A	20000825	KR 1999-703759	19990429
PRAI	US 1996-741038	A	19961030		
	WO 1997-US19204	W	19971029		
AB	A water-miscible compn. consisting of a solvating surfactant, selected from alkoxylated castor oil, alkoxylated hydrogenated castor oil and an alkoxylated rosin, and a pesticide dissolved in the solvating surfactant, is useful to prep. aq. microemulsions, micellar solns. or mol. solns. upon mixing with water.				
IT	90-43-7, 2-Phenylphenol 1725-81-1 2682-20-4, 2-Methyl-4-isothiazolin-3-one 20018-09-1, Diiodomethyl-p-tolyl sulfone 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6, IPBC 55406-54-7, Carbamic acid, cyclohexyl, 3-iodo-2-propynyl ester 60207-31-0, Azaconazole 65184-12-5 94361-06-5, Cyproconazole 128893-09-4				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(microemulsion of)				

L5 ANSWER 14 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 14

Full Text

AN 130:21751 CA  
 TI Controlled-release formulations of microbicides, pesticides and marine antifouling agents  
 IN Ghosh, Tirthankar; Nungesser, Edwin Hugh  
 PA Rohm and Haas Company, USA  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

## STN Columbus

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 880892	A1	19981202	EP 1998-303785	19980514
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6221374	B1	20010424	US 1998-73282	19980506
	AU 9865934	A1	19981203	AU 1998-65934	19980514
	CA 2238230	AA	19981128	CA 1998-2238230	19980521
	NO 9802324	A	19981130	NO 1998-2324	19980522
	CN 1200875	A	19981209	CN 1998-109336	19980527
	BR 9801705	A	20000425	BR 1998-1705	19980527
	JP 11012103	A2	19990119	JP 1998-146825	19980528
PRAI	US 1997-47966P	P	19970528		
OS	MARPAT 130:21751				
AB	The title biol.-active compds. are incorporated into polyphenolic compds. for sustained release. The polyphenolic compds. phenol-formaldehyde condensates, optionally cross-linked, 4,4'-biphenol, cresol-formaldehyde condensates, dicyclopentadiene-phenol resins, etc.				
RE.CNT	14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD				
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				
IT	52-51-7 101-20-2, 3,4,4'-Trichlorocarbanilide 137-26-8, Tetramethylthiuram disulfide 137-30-4, Zinc dimethyl dithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5, 5-Chloro-2-(2,4-dichlorophenoxy)phenol 6317-18-6, Methylene bis thiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zinc ethylenebisdithiocarbamate 12427-38-2 13108-52-6, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine 13167-25-4 13463-41-7, Zinc 2-pyridinethiol-1-oxide 20018-09-1, Diiodomethyl-p-tolyl sulfone 21564-17-0, 2-Thiocyanomethylthiobenzothiazole 26172-55-4 26530-20-1, 2-Octyl-3-isothiazolone 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 55406-53-6, 3-Iodo-2-propynyl butylcarbamate 55965-84-9 64359-81-5, 4,5-Dichloro-2-Octyl-3-isothiazolone 64440-88-6 67412-55-9, N,N-Dimethyldichlorophenylurea 82633-79-2 83364-12-9 107846-11-7, Bromochlorodimethylhydantoin 216006-67-6				
	RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(controlled-release formulation of)				

L5 ANSWER 15 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 15

Full Text

AN 126:71582 CA

TI Potentiation of biocide activity using an N-alkylheterocyclic compound

IN Whittemore, Marilyn S.; Glover, Daniel E.; Rayudu, S. Rao

PA Buckman Laboratories International, Inc., USA

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9638043	A1	19961205	WO 1996-US7677	19960528
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				

## STN Columbus

US 6034081 A 20000307 US 1995-453001 19950530  
 ZA 9604131 A 19961127 ZA 1996-4131 19960523  
 CA 2222864 AA 19961205 CA 1996-2222864 19960528  
 AU 9659315 A1 19961218 AU 1996-59315 19960528  
 EP 857021 A1 19980812 EP 1996-916627 19960528  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI  
 CN 1190869 A 19980819 CN 1996-195490 19960528  
 BR 9608368 A 19990105 BR 1996-8368 19960528  
 JP 11506103 T2 19990602 JP 1996-536575 19960528  
 NO 9705501 A 19980130 NO 1997-5501 19971128  
 PRAI US 1995-453001 19950530  
 WO 1996-US7677 19960528  
 OS MARPAT 126:71582  
 AB A microbicide and an N-alkylheterocyclic compd. (Markush given) are applied to a substrate or aq. system subject to the growth of microorganisms. The microbicide is 5-chloro-2-methyl-4-isothiazolin-3-one, 2-methyl-4-isothiazoline-3-one, 2-bromo-2-nitropropane-1,3-diol, iodopropargyl butylcarbamate, etc. and the N-alkylheterocyclic compd. is N-dodecylimidazole, N-dodecylmorpholine, N-dodecyl-2,6-dimethylmorpholine, N-dodecyl-5-chloromethyl-2-oxazolidinone, etc. The mixts., which are synergistic, are particularly useful as microbicides in the leather, lumber, papermaking, and textile industry, in agriculture, for coatings, as well as in industrial process waters.  
 IT 52-51-7D, 2-Bromo-2-nitropropane-1,3-diol, mixts. with N-alkylheterocyclic compds. 122-42-9D, IPC, mixts. with N-alkylheterocyclic compds. 1541-81-7D, N-Dodecylmorpholine, mixts. contg. 1704-28-5D, N-Dodecyl-2,6-dimethylmorpholine, mixts. contg. 2634-33-5D, 1,2-Benzisothiazol-3(2H)-one, mixts. with N-alkylheterocyclic compds. 2682-20-4D, mixts. with N-alkylheterocyclic compds. 2687-96-9D, N-Dodecyl-2-pyrrolidinone, mixts. contg. 2915-94-8 4303-67-7D, N-Dodecylimidazole, mixts. contg. 5917-47-5D, N-Dodecylpiperidine, mixts. contg. 10222-01-2D, 2,2-Dibromo-3-nitrilopropionamide, mixts. with N-alkylheterocyclic compds. 20422-09-7D, mixts. contg. 25376-38-9D, Tribromophenol, mixts. with N-alkylheterocyclic compds. 26172-55-4D, 5-Chloro-2-methyl-4-isothiazolin-3-one, mixts. with N-alkylheterocyclic compds. 55406-53-6D, IPBC, mixts. with N-alkylheterocyclic compds. 79089-29-5D, mixts. contg. 152720-68-8D, mixts. contg. 152720-69-9D, mixts. contg. 152720-70-2D, mixts. contg. RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (synergistic microbicides)

L5 ANSWER 16 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 16

Full Text

AN 124:32132 CA  
 TI Stain-blocking and mildewcide-resistant coating compositions  
 IN Thomassen, Ivar P.  
 PA O'Brien Corp., USA  
 SO U.S., 5 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5460644	A	19951024	US 1993-166692	19931214
AB	A stain-blocking, mildewcide and biocide resistant aq. coating compns. contain synthetic or natural polymer and 1-25% a sol. zinc ammonium complex biocide and agent to render tannin stains insol. The zinc ammonium complex has the formula $Zn(NH_3)_2 \cdot n \cdot X \cdot H_2O$ ( $n = 4-6$ and $X =$ acetate, borate, carbonate, citrate and phosphate).				

## STN Columbus

IT 64-19-7D, Acetic acid, zinc ammonium complex 77-92-9D, Citric acid, zinc ammonium complex 463-79-6D, Carbonic acid, zinc ammonium complex 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 7664-38-2D, Phosphoric acid, zinc ammonium complex 10043-35-3D, Boric acid, zinc ammonium complex 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 26530-20-1 55406-53-6, 3-Iodo-2-propynyl butyl carbamate  
 RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (stain-blocking and mildewcide-resistant coating compns.)

L5 ANSWER 17 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 17

Full Text

AN 123:284519 CA  
 TI Fungicide-containing composition for prevention of deposition of urinary calculi in animal laboratory  
 IN Takemura, Eiji; Nanba, Hiroki; Hagiwara, Atsuko  
 PA Nippon Soda Co, Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07148498	A2	19950613	JP 1993-321366	19931126
AB	Urinary calculi deposition in bench and table of animal lab. is prevented with a compn. contg. fungicide, acid, and surfactant.				
IT	148-79-8	10605-21-7	13108-52-6	13463-41-7	21564-17-0
	26172-55-4	42778-72-3	43143-11-9	55406-53-6	
	61886-37-1	77352-88-6			
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fungicide-contg. compn. for prevention of deposition of urinary calculi in animal lab.)				

L5 ANSWER 18 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 18

Full Text

AN 124:236544 CA  
 TI Preservation of water-based cooling lubricating oils [against microbial degradation]  
 AU Anker, W.  
 CS BODE Chem. G.m.b.H. und Co., Hamburg, 22525, Germany  
 SO Mikrob. Materialzerstoerung Materialschutz (1995), 151-61. Editor(s): Brill, Holger. Publisher: Fischer, Jena, Germany.  
 CODEN: 62OVAJ  
 DT Conference; General Review  
 LA German  
 AB A review, with 13 refs., of biocides and biostats for water-based [esp. metalworking] cooling lubricating oils. Classes of biocides discussed include: (1) aldehydes (formaldehyde and glutaraldehyde) and aldehyde precursors (O-formals and hemiformals; N-formals, aminated, and hemiaminals; and 1,3-propanediol-type compds.), isothiazolinones, and other compds.  
 IT 52-51-7, 2-Bromo-2-nitro-1,3-propanediol 126-11-4, Tris(hydroxymethyl)nitromethane 140-95-4, Dimethylolurea 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 2682-20-4 2832-19-1, N-Methylolchloracetamide 3586-55-8 3811-73-2, Sodium 2-pyridinethiol-N-oxide 4719-04-4 5625-90-1, Methylenebis(morpholine) 7779-27-3, 1,3,5-Triethyl-1,3,5-hexahydrotriazine 14548-60-8 26172-55-4 26530-20-1 51200-87-4, 4,4-Dimethyloxazolidine 55406-53-6, 3-Iodo-2-propynylbutyl carbamate 66204-44-2

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82633-78-1

RL: BAC (Biological activity or effector, except adverse); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
(biocide; classes and action mechanisms of biocides and biostats for water-based metalworking cooling lubricating oils)

L5 ANSWER 19 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 19

Full Text

AN 119:182960 CA  
TI Washable dye-containing compositions  
IN Kaiser, Richard J.; Preuninger, Gail W.  
PA Binney and Smith Inc., USA  
SO Eur. Pat. Appl., 11 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 557115	A1	19930825	EP 1993-301225	19930219
	R: DE, ES, FR, GB, IT				
	AU 9333182	A1	19930826	AU 1993-33182	19930219
	CA 2090057	AA	19930821	CA 1993-2090057	19930222
PRAI	US 1992-839100		19920220		

AB Marking pen inks and tempera paints for children, easily washed off the skin or fabrics, comprise an acid dye, a vehicle (e.g., water), and a sulfonated phenol-formaldehyde resin, optionally with binders, extenders, preservatives, etc. A suitable compn. contained water 51.86, defoamer 0.51, binder 8.65, extenders 33.98, thickener 1.25, freeze/thaw additive 3.12, preservatives 0.63, C.I. Acid Red 388 0.5, and Intratex N 3.5 wt.%.  
IT 99-76-3, Methyl p-hydroxybenzoate 111-30-8, Glutaraldehyde 2682-20-4, 2-Methyl-4-isothiazolin-3-one 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6, 3-Iodo-2-propynyl butylcarbamate  
RL: USES (Uses)  
(preservative, acid dye colorant compns. contg. sulfonated phenol-formaldehyde condensates and, for easy removal from skin or fabrics by washing)

L5 ANSWER 20 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 20

Full Text

AN 116:262596 CA  
TI Toilet flushing water containing bactericides and fungicides  
IN Suzuki, Hiroyuki; Kaneko, Tetsuya  
PA Nippon Soda K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04051959	A2	19920220	JP 1990-158612	19900619
	JP 06083720	B4	19941026		

AB A bactericide (e.g. 2-bromo-2-nitropropane-1,3-diol) and a fungicide (e.g. 5-chloro-2-methyl-4-isothiazolin-3-one) are used in toilet flushing water in vehicles, such as trains, autobuses, airplanes, and ships, where the flushing water is recirculated. Odors caused by NH<sub>3</sub> and H<sub>2</sub>S, and slime formation in the flushing water are controlled by the microbicides.  
IT 90-43-7, O-Phenylphenol 97-23-4 719-96-0, N-(Fluorodichloromethylthio)phthalimide 1031-56-7 6317-18-6, Methylenebis(thiocyanate) 10605-21-7, 2-Benzimidazolecarbamic acid methyl ester 13108-52-6, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine

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13463-41-7 21564-17-0 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6 55965-92-9 69094-18-4, 2,2-Dibromo-2-nitroethanol  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BIOL (Biological study); USES (Uses)  
 (as fungicide, in toilet flushing water)

L5 ANSWER 21 OF 21 CA COPYRIGHT 2002 ACS DUPLICATE 21

## Full Text

AN 118:197134 CA  
 TI Temporary health effects from exposure to water-borne paints  
 AU Ulfvarson, Ulf; Alexandersson, Rolf; Dahlqvist, Monica; Ekholm, Ulla; Bergstroem, Bjoern; Scullman, Jan  
 CS Dep. Work Sci., R. Inst. Technol., Stockholm, S-100 44, Swed.  
 SO Scand. J. Work, Environ. Health (1992), 18(6), 376-87  
 CODEN: SWEHDO; ISSN: 0355-3140  
 DT Journal  
 LA English  
 AB Temporary health effects of exposure to exptl. paints were studied. Ten painters having complaints from the use of water-based paints and 8 painters not having such complaints applied 8 exptl. water-based paints according to normal work routines. The effects were a decrease in forced vital capacity, forced expiratory vol. in 1 s, and peak expiratory flow, an increase in urine excretion, and a decrease in urine d. A small, but statistically highly significant, increase in the mean vol. of erythrocytes was obsd. The effects were similar in the 2 groups, but the group with complaints reacted with a larger urine excretion and a larger increase in the mean vol. of erythrocytes. The effects did not influence phys. work capacity. The effects on the lungs and urinary excretion were probably not assocd. with the org. solvents or NH3 in the paints. They were probably due to derivs. of isothiazolinone.  
 IT 56-35-9 57-55-6, Propylene glycol, miscellaneous 84-74-2, Dibutyl phthalate 107-20-0 107-41-5, Hexylene glycol 121-44-8, Triethylamine, miscellaneous 122-99-6, Dalpad a 2634-33-5, 1,2-Benzisothiazol-3(2H)-one 2682-20-4 7664-41-7, Ammonia, miscellaneous 15102-42-8 25265-77-4, Texanol 26172-55-4 55406-53-6 147172-32-5, Lusolvan FBH  
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
 (occupational exposure to water-based paints contg., health effects of)

=> s weight ration

L6 34 WEIGHT RATION

=> s weight ratio

L7 11047 WEIGHT RATIO

=> s 16 or 17

L8 11078 L6 OR L7

=> d his

(FILE 'HOME' ENTERED AT 11:09:21 ON 26 APR 2002)

FILE 'HOME' ENTERED AT 11:11:39 ON 26 APR 2002

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 26 APR 2002

L1 1 S METCONAZOLE/CN  
 L2 2 S 2 METHYLISOTHIAZOLIN 3 ONE  
 L3 1 S 3 IODO 2 PROPYNYL N BUTYLCARBAMATE

FILE 'MEDLINE, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT' ENTERED AT



# STN Columbus

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11:34:54 ON 26 APR 2002
L4      42 S L2 AND L3
L5      21 DUP REM L4 (21 DUPLICATES REMOVED)
L6      34 S WEIGHT RATION
L7      11047 S WEIGHT RATIO
L8      11078 S L6 OR L7

=> s l8 and l5
L9      0 L8 AND L5

=> aliphatic alcohol
ALIPHATIC IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s polar
L10     308577 POLAR

=> s aliphatic alcohol
L11     991 ALIPHATIC ALCOHOL

=> s glycol
L12     628373 GLYCOL

=> s l10 or l11 or l12
L13     929648 L10 OR L11 OR L12

=> s l13 and l5
L14     2 L13 AND L5

=> d l14 1-2 ibib, kwic

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L14 ANSWER 1 OF 2 CA COPYRIGHT 2002 ACS

## Full Text

ACCESSION NUMBER: 135:124156 CA  
 TITLE: Bactericide combinations in detergents  
 INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip  
 PATENT ASSIGNEE(S): Robert McBride Ltd., UK  
 SOURCE: Brit. UK Pat. Appl., 53 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001
IT 50-00-0, Formaldehyde, uses 50-00-0D, Formaldehyde, reaction products, uses 50-14-6 50-21-5, uses 50-65-7 50-99-7, D-Glucose, uses 51-03-6 51-28-5, uses 52-51-7 52-68-6 54-21-7 54-64-8 55-38-9 55-56-1 55-86-7 56-35-9 56-36-0 56-37-1 56-38-2 56-95-1 57-09-0 57-10-3, Hexadecanoic acid, uses 57-15-8 57-24-9, Strychnidin-10-one 57-55-6D, Propylene glycol, reaction products with formaldehyde 58-36-6 58-89-9 59-50-7 59-87-0 60-12-8, Benzeneethanol 60-51-5 61-73-4 62-38-4 62-56-6, Thiourea, uses 62-73-7 63-25-2 64-18-6, Formic acid, uses 64-18-6D, Formic acid, reaction products 64-19-7D, Acetic acid, derivs., uses 64-69-7 67-20-9 67-63-0D, 2-Propanol, reaction products with boron trifluoride and 5-ethylidenebicyclo[2.2.1]hept-2-ene, uses 67-66-3, uses 67-68-5, uses 67-97-0 69-72-7, uses 70-55-3 71-23-8, 1-Propanol, uses				

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71-41-0, 1-Pentanol, uses 72-43-5 72-56-0 74-83-9, uses 75-12-7D, Formamide, reaction products with formaldehyde, uses 75-21-8, Oxirane, uses 75-31-0, 2-Propanamine, uses 75-91-2 76-06-2 76-22-2 76-39-1 76-87-9 77-42-9 77-48-5 77-49-6 77-78-1D, Dimethyl sulfate, quaternized with 9-octadecenoic acid/triethanolamine reaction products 77-78-1D, Dimethyl sulfate, quaternized with fatty acid/triethanolamine reaction products 77-92-9, uses 78-59-1 78-69-3 78-70-6 78-79-5D, Isoprene, reaction products with acetic acid 78-83-1, uses 78-92-2, 2-Butanol 79-07-2 79-08-3 79-11-8, uses 79-11-8D, Chloroacetic acid, reaction products with N-C10-16-alkyltrimethylenediamines 79-11-8D, Acetic acid, chloro-, reaction products with diethylenetriamine N-mono- and di-C8-18-alkyl derivs., uses 79-14-1, uses 79-20-9 79-21-0, Ethaneperoxoic acid 79-69-6 79-92-5D, 2,2-Dimethyl-3-methylenebicyclo[2.2.1]heptane, reaction products with 2-methoxyphenol, hydrogenated 80-26-2 80-27-3 80-46-6 80-71-7 81-07-2D, 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, salts with quaternary ammonium compds., benzyl-C12-18-alkyldimethyl (1:1) 81-14-1 81-15-2 81-81-2 81-82-3 82-66-6 83-34-1 83-79-4 84-65-1, 9,10-Anthracenedione 84-66-2 84-74-2 85-91-6 87-10-5 87-17-2 87-20-7 87-22-9 87-90-1 88-04-0 88-06-2 88-14-2, 2-Furancarboxylic acid 88-84-6 89-68-9 89-78-1 89-79-2 89-83-8 90-05-1D, Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane, hydrogenated 90-13-1 90-17-5 90-43-7, [1,1'-Biphenyl]-2-ol 90-43-7D, [1,1'-Biphenyl]-2-ol, chlorinated 90-87-9 91-20-3, Naphthalene, uses 91-61-2 91-64-5, 2H-1-Benzopyran-2-one 93-15-2 93-16-3 93-51-6 93-59-4, Benzenecarboperoxoic acid 93-65-2 93-69-6 93-89-0 94-13-3 94-18-8 94-26-8 94-36-0, uses 94-96-2 95-14-7, 1H-Benzotriazole 95-41-0 95-48-7, uses 96-24-2 96-29-7 97-23-4 97-24-5 97-54-1 97-77-8 98-01-1, 2-Furancarboxaldehyde, uses 98-11-3D, Benzenesulfonic acid, mono-C10-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-ylcarbamate, uses 98-53-3 98-55-5 99-49-0 99-76-3 99-86-5 100-37-8 100-44-7, uses 100-51-6, Benzenemethanol, uses 100-52-7, Benzaldehyde, uses 100-73-2 100-86-7 100-89-0 100-97-0, uses 101-20-2 101-21-3 101-39-3 101-53-1 101-84-8 101-85-9 102-17-0 102-20-5 102-30-7 102-71-6D, copper complexes 102-71-6D, Triethanolamine, reaction products with 9-octadecenoic acid, di-Me sulfate-quaternized 102-98-7 103-05-9 103-26-4 103-52-6 103-82-2, Benzeneacetic acid, uses 103-95-7 104-09-6 104-21-2 104-29-0 104-53-0, Benzenepropanal 104-54-1 104-55-2 104-60-9 104-61-0 104-62-1 104-67-6 104-76-7 104-78-9 104-87-0 105-01-1 105-66-8 105-85-1 105-87-3 105-90-8 106-22-9 106-24-1 106-25-2 106-30-9 106-44-5, uses 106-46-7 106-70-7 106-72-9 106-73-0 106-79-6 106-88-7 106-89-8, uses 107-02-8, 2-Propenal, uses 107-21-1D, Ethylene glycol, reaction products with formaldehyde 107-22-2, Ethanedial 107-41-5 107-43-7 107-75-5 107-95-9D,  $\beta$ -Alanine, N-coco alkyl derivs. 108-16-7 108-39-4, uses 108-64-5 108-80-5, 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione 108-88-3, uses 108-89-4 108-94-1, Cyclohexanone, uses 108-95-2, Phenol, uses 108-95-2D, Phenol, polypropene derivs., uses 108-99-6 109-21-7 109-89-7, uses 110-05-4 110-15-6, Butanedioic acid, uses 110-27-0 110-38-3 110-41-8 110-44-1 110-58-7, 1-Pentanamine 110-62-3, Pentanal 110-75-8 110-86-1, Pyridine, uses 110-89-4, Piperidine, uses 111-11-5 111-27-3, 1-Hexanol, uses 111-30-8, Pentanedial 111-40-0D, 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with 1-chlorooctane

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 111-40-0D, Diethylenetriamine, reaction products with chloroacetic acid, N-mono- and di-C8-18-alkyl derivs. 111-41-1D, 2-(2-Aminoethyl)aminoethanol, reaction with coco fatty acids, quaternized

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111-42-2, uses 111-46-6D, Diethylene glycol, reaction products with formaldehyde 111-61-5 111-81-9 111-82-0 111-85-3D, 1-Chlorooctane, reaction products with acetic acid and diethylenetriamine 111-85-3D, 1-Chlorooctane, reaction products with N-(2-aminoethyl)-1,2-ethanediamine 111-92-2 112-00-5 112-02-7 112-18-5 112-34-5D, 2-(2-Butoxyethoxy)ethanol, reaction products with formaldehyde 112-38-9, 10-Undecenoic acid 112-39-0 112-43-6, 10-Undecen-1-ol 112-45-8, 10-Undecenal 112-53-8, 1-Dodecanol 112-54-9, Dodecanal 112-59-4 112-61-8 112-69-6 112-72-1, 1-Tetradecanol 112-75-4 112-80-1D, 9-Octadecenoic acid (9Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized, uses 112-90-3 113-48-4 114-26-1 114-63-6 115-29-7 115-31-1 115-32-2 115-71-9 116-25-6 117-18-0 117-52-2 118-52-5 118-55-8 118-58-1 118-71-8 118-79-6 119-36-8 119-61-9, uses 120-32-1 120-47-8 120-50-3 120-51-4 120-57-0, 1,3-Benzodioxole-5-carboxaldehyde 120-72-9, 1H-Indole, uses 121-32-4 121-33-5 121-44-8, uses 121-54-0 121-65-3 121-75-5 122-07-6 122-14-5 122-18-9 122-19-0 122-34-9 122-40-7 122-42-9 122-48-5 122-67-8 122-69-0 122-70-3 122-78-1, Benzeneacetaldehyde 122-97-4, Benzenepropanol 122-99-6 123-05-7 123-11-5, uses 123-29-5 123-30-8 123-32-0 123-66-0 124-04-9, Hexanedioic acid, uses 124-07-2, Octanoic acid, uses 124-09-4, 1,6-Hexanediamine, uses 124-13-0, Octanal 124-19-6, Nonanal 124-22-1, 1-Dodecanamine 124-43-6 124-65-2 124-76-5 126-06-7 126-11-4 126-15-8 126-91-0 127-41-3 127-43-5 127-51-5 127-65-1 127-90-2 127-91-3 128-03-0 128-04-1 128-08-5 128-09-6 129-06-6 131-11-3 131-52-2 132-27-4 133-06-2 133-07-3 133-53-9 134-20-3 134-28-1 134-62-3 135-79-5 136-45-8 136-53-8 136-77-6 136-85-6 137-16-6 137-26-8 137-30-4 137-40-6 137-41-7 137-42-8 138-93-2 139-07-1 139-08-2 140-10-3, uses 140-11-4 140-39-6 140-72-7 140-95-4 141-94-6 142-18-7 142-59-6 142-62-1, Hexanoic acid, uses 142-71-2 143-07-7, Dodecanoic acid, uses 143-08-8, 1-Nonanol 143-14-6, 9-Undecenal 143-50-0 144-55-8, Carbonic acid monosodium salt, uses 144-62-7, Ethanedioic acid, uses 147-71-7 148-24-3, 8-Quinolinol, uses 148-79-8 149-30-4, 2(3H)-Benzothiazolethione 149-57-5 150-78-7 150-84-5 151-01-9 151-21-3, uses 156-62-7 298-12-4 299-84-3 300-76-5 302-01-2, Hydrazine, uses 330-54-1 333-41-5 334-48-5, Decanoic acid 359-37-5 379-52-2 404-86-4 470-43-9 470-82-6 473-34-7 475-20-7D, reaction products with formic acid and boron trifluoride 488-10-8 489-86-1 498-81-7 499-83-2, 2,6-Pyridinedicarboxylic acid 502-61-4 504-24-5, 4-Pyridinamine 507-60-8 507-70-0 514-51-2 515-00-4 515-69-5 520-45-6 527-07-1 532-32-1 533-74-4 534-18-9 535-89-7 536-59-4 536-60-7 538-71-6 539-82-2 539-90-2 541-91-3 544-63-8, Tetradecanoic acid, uses 551-92-8 556-61-6 557-08-4 576-55-6 577-11-7 582-25-2 584-79-2 589-38-8, 3-Hexanone 589-66-2 591-12-8 597-09-1 615-62-3 620-23-5 621-82-9, uses 624-15-7 625-51-4 626-82-4 628-63-7 638-37-9, Butanedial 639-58-7 643-79-8, 1,2-Benzenedicarboxaldehyde 646-06-0, 1,3-Dioxolane 659-40-5 683-10-3 688-73-3D, Stannane, tributyl-, mono(naphthenoyloxy) derivs. 692-86-4 695-10-3D, 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-nortall-oil alkyl derivs. 696-59-3 699-02-5 705-86-2 706-14-9 719-96-0 731-27-1 762-26-5 770-35-4 789-02-6 821-55-6, 2-Nonanone 825-51-4 828-00-2 870-72-4 886-50-0 900-95-8 925-78-0, 3-Nonanone 929-73-7 959-55-7 971-66-4 991-42-4 996-35-0 1000-82-4 1066-30-4 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses) (bactericide combinations in detergents) IT 7757-83-7 7758-02-3, Potassium bromide (KBr), uses 7758-19-2 7758-89-6, Copper chloride (CuCl) 7758-98-7, Sulfuric acid copper(2+) salt (1:1), uses 7758-99-8 7775-09-9 7775-27-1 7778-39-4, Arsenic acid (H3AsO4) 7778-43-0 7778-50-9 7778-54-3 7778-66-7 7779-27-3 7779-73-9 7779-78-4 7779-81-9 7782-44-7, Oxygen, uses 7782-50-5,

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Chlorine, uses 7783-20-2, Sulfuric acid diammonium salt, uses  
7783-90-6, Silver chloride (AgCl), uses 7786-29-0 7786-30-3, Magnesium  
chloride (MgCl<sub>2</sub>), uses 7789-09-5 7789-12-0 7789-29-9, Potassium  
fluoride (K(HF<sub>2</sub>)) 7789-33-5, Iodine bromide (IBr) 7790-28-5  
7790-99-0, Iodine chloride (ICl) 7803-51-2, Phosphine 8000-41-7,  
Terpineol 8007-35-0 9001-37-0 9002-91-9 9003-07-0D, Polypropylene,  
phenol derivs. 9003-29-6 9003-63-8 9003-99-0, Peroxidase 9004-82-4  
9004-98-2 10028-15-6, Ozone, uses 10031-43-3 10032-15-2  
10043-35-3, Boric acid (H<sub>3</sub>BO<sub>3</sub>), uses 10049-04-4, Chlorine oxide (ClO<sub>2</sub>)  
10058-23-8 10101-41-4 10124-37-5 10154-75-3 10187-52-7  
10198-23-9 10222-01-2 10235-63-9 10294-64-1 10332-33-9  
10339-55-6 10345-79-6 10377-60-3 10378-23-1 10380-28-6  
10453-86-8 10460-00-1 10482-56-1 10486-00-7 10543-57-4  
10588-01-9 10588-15-5 10595-49-0 10605-21-7 10605-21-7D, Methyl  
1H-benzimidazol-2-ylcarbamate, compds. with benzenesulfonic acid  
mono-ClO-14-alkyl derivs. 11031-45-1, Santalol 11050-62-7  
11084-85-8, Sodium hypochlorite phosphate (Na<sub>13</sub>(ClO)(PO<sub>4</sub>)<sub>4</sub>) 11096-42-7  
12008-41-2, Boron sodium oxide (B<sub>8</sub>Na<sub>2</sub>O<sub>13</sub>) 12062-24-7 12069-69-1  
12122-67-7 12124-97-9, Ammonium bromide ((NH<sub>4</sub>)Br) 12179-04-3  
12267-73-1 12280-03-4 12427-38-2 13014-03-4 13019-22-2,  
9-Decen-1-ol 13052-19-2 13108-52-6 13149-79-6 13167-25-4  
13197-76-7 13254-34-7 13351-61-6 13426-91-0 13435-05-7  
13463-41-7 13463-67-7, Titanium oxide (TiO<sub>2</sub>), uses 13516-27-3  
13517-11-8, Hypobromous acid 13532-18-8 13590-97-1 13701-59-2  
13707-65-8 13720-12-2 13755-29-8 13824-96-9 13826-83-0  
13840-33-0 13863-41-7, Bromine chloride (BrCl) 13877-91-3 13980-04-6  
14073-97-3 14371-10-9 14548-60-8 14576-08-0 14667-55-1  
14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched 14762-38-0  
14816-18-3 14915-37-8 14936-67-5 15323-35-0 15435-29-7  
15510-55-1 15627-09-5 15630-89-4 15707-23-0 15733-22-9  
15739-09-0 15809-19-5 15986-80-8 16079-88-2 16219-75-3D,  
5-Ethylidenebicyclo[2.2.1]hept-2-ene, reaction products with boron  
trifluoride and 2-propanol 16228-00-5 16409-43-1 16491-36-4  
16752-77-5 16828-95-8 16871-71-9 16893-85-9 16919-19-0  
16949-65-8 16961-83-4 17084-08-1 17342-21-1 17804-35-2  
18181-70-9 18181-80-1 18205-85-1 18339-16-7 18472-51-0  
18479-54-4 18479-57-7 18675-16-6 18675-17-7 18794-84-8  
18829-56-6 18854-01-8 18972-56-0 19014-05-2 19093-20-0  
19379-90-9 19388-87-5 19578-81-5 19766-89-3 19819-98-8  
19870-74-7 20013-73-4 20018-09-1 20543-04-8 20545-92-0  
20662-57-1 20679-58-7 20834-59-7 20859-73-8, Aluminum phosphide  
(AlP) 21129-27-1 21145-77-7 21564-17-0 21757-82-4 21834-92-4  
22009-37-6 22205-45-4, Copper sulfide (Cu<sub>2</sub>S) 22221-10-9 22248-79-9  
22781-23-3 22882-89-9 22882-91-3 22936-75-0 22981-54-0  
23031-36-9 23495-12-7 23560-59-0 23564-05-8 23726-92-3  
23726-94-5 23787-90-8 24019-05-4 24048-13-3 24111-17-9  
24124-25-2 24291-45-0 24634-61-5 24720-09-0 24851-98-7  
25068-14-8 25155-18-4 25155-29-7 25167-82-2 25225-10-9  
25254-50-6 25265-71-8 25304-14-7 25377-70-2 25628-84-6  
25655-41-8 25988-97-0 26002-80-2 26062-79-3 26172-55-4  
26248-98-6 26354-18-7 26530-03-0 26530-20-1 26545-49-3  
26617-87-8 26635-93-8 26781-23-7 27083-27-8 27176-87-0  
27236-65-3 27253-29-8 27323-41-7 27697-50-3 28069-74-1  
28159-98-0 28219-61-6 28302-36-5 28387-62-4  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
BIOL (Biological study); USES (Uses)  
(bactericide combinations in detergents)  
IT 28434-00-6 28434-01-7 28558-32-9 28645-51-4, Oxacycloheptadec-10-en-  
2-one 28728-61-2 28772-56-7 28777-01-7 28805-58-5 29232-93-7  
29350-73-0 29463-06-7 29873-30-1 29873-33-4 29973-13-5  
30007-47-7 30388-01-3 30560-19-1 30772-79-3 31075-24-8  
31195-95-6 31218-83-4 31501-11-8 31512-74-0 31906-04-4

# STN Columbus

32276-75-8 32289-58-0 32388-55-9 33089-61-1 33704-61-9  
 33939-64-9 33972-49-5 34375-28-5 34395-72-7 34413-35-9  
 34681-10-2 34911-46-1 35109-57-0 35206-70-3 35285-68-8  
 35285-69-9 35367-38-5 35445-70-6 35554-44-0 35575-96-3  
 35691-65-7 35950-52-8 36059-35-5 36362-09-1 36631-23-9  
 36734-19-7 37139-99-4 37228-06-1 37306-10-8, Chromium copper boride  
 38083-17-9 38260-54-7 38460-95-6D, 10-Undecenoyl chloride, reaction  
 products with protein hydrolyzates, potassium salts 38465-60-0  
 38664-03-8 38811-14-2 39236-46-9 39300-45-3 39354-45-5  
 39515-40-7 39650-63-0, 1H-Benzimidazole-2-pentanamine 39660-17-8  
 39758-90-2 40027-80-3 40188-41-8 40596-69-8 41096-46-2  
 41877-16-1 42370-07-0 42436-34-0 42534-61-2 43143-11-9  
 44992-01-0 46830-22-2 46917-07-1 50542-90-0 50650-76-5  
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 53082-58-9 53488-14-5 53720-80-2 53727-58-5 54262-78-1  
 54406-48-3 54427-07-5, Copper boride 54464-57-2 54720-15-9  
 54779-21-4 55142-08-0 55406-53-6 55566-30-8 55722-59-3  
 55965-84-9 56073-07-5 56073-10-0 56148-34-6 56148-37-9  
 56148-40-4 56289-76-0 56427-82-8 56709-13-8 56996-62-4, Glokill 77  
 57006-76-5 57382-78-2 57413-95-3 57503-06-7 57520-17-9  
 57576-09-7 57837-19-1 58206-95-4 58249-25-5 58769-20-3  
 59323-76-1 59324-17-3 59355-53-2, Citrex S 5 60114-62-7D,  
 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl  
 derivs., inner salts 60168-88-9 60207-31-0 60207-90-1 60239-68-1  
 60568-05-0 60736-58-5 60763-40-8 60784-31-8 60812-23-9  
 61692-81-7 61692-84-0 61702-91-8 61842-86-2 62476-84-0D,  
 Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs., acetates  
 62755-21-9 63085-03-0 63333-35-7 63500-71-0 63619-09-0  
 63943-38-4 64359-81-5 64440-88-6 64628-44-0 64665-57-2  
 64988-06-3 65059-43-0 65289-97-6 65289-98-7 65290-00-8  
 65400-98-8 65630-22-0 65694-09-9 65733-16-6 65733-18-8  
 66062-78-0 66063-61-4 66065-55-2D, Benzenemethanaminium,  
 N-(3-aminopropyl)-N,N-dimethyl-, chloride, N-coco acyl derivs.  
 66091-24-5D, 1-Propanaminium, 3-amino-N-ethyl-N,N-dimethyl-, N-lanolin  
 acyl derivs., Et sulfates 66204-44-2 66215-27-8 66789-18-2  
 66841-25-6 67100-72-5 67171-34-0 67185-04-0 67228-83-5  
 67485-29-4 67508-69-4 67633-95-8 67633-98-1 67633-99-2  
 67634-01-9 67634-12-2 67634-14-4 67634-15-5 67634-25-7  
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 67801-47-2 67845-46-9 67846-68-8 68085-85-8 68134-42-9  
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 68359-37-5 68480-15-9 68480-16-0 68527-77-5 68527-84-4  
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 68959-20-6 68991-96-8 68991-97-9 69094-18-4 69153-35-1  
 70161-44-3 70680-04-5 70680-05-6 70754-17-5 70775-75-6  
 70788-30-6 70799-70-1 70862-65-6 71297-57-9 71297-58-0  
 71297-59-1 71646-36-1 72089-08-8 72490-01-8 72963-72-5  
 73264-51-4 73337-96-9D,  $\beta$ -Alanine, N-(2-aminoethyl)-N-(2-  
 hydroxyethyl)-, N-C8-18-acyl derivs. 74774-67-7  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)

L14 ANSWER 2 OF 2 CA COPYRIGHT 2002 ACS

Full Text

ACCESSION NUMBER:

118:197134 CA

TITLE:

Temporary health effects from exposure to water-borne  
 paints

AUTHOR(S):

Ulfvarson, Ulf; Alexandersson, Rolf; Dahlqvist,  
 Monica; Ekholm, Ulla; Bergstroem, Bjoern; Scullman,

# STN Columbus

Jan  
CORPORATE SOURCE: Dep. Work Sci., R. Inst. Technol., Stockholm, S-100  
44, Swed.  
SOURCE: Scand. J. Work, Environ. Health (1992), 18(6), 376-87  
CODEN: SWEHDO; ISSN: 0355-3140  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 56-35-9 57-55-6, Propylene glycol, miscellaneous 84-74-2,  
Dibutyl phthalate 107-20-0 107-41-5, Hexylene glycol  
121-44-8, Triethylamine, miscellaneous 122-99-6, Dalpad a 2634-33-5,  
1,2-Benzisothiazol-3(2H)-one 2682-20-4 7664-41-7, Ammonia,  
miscellaneous 15102-42-8 25265-77-4, Texanol 26172-55-4  
55406-53-6 147172-32-5, Lusolvam FBH  
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(occupational exposure to water-based paints contg., health effects of)

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	84.29	144.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-12.39	-12.39

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DICTIONARY FILE UPDATES: 24 APR 2002 HIGHEST RN 407577-00-8

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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=> s n n dimethylforamide 2 2 4 trimethylpentanediolmonoisobutyrate
    4039655 N
    4039655 N
      2 DIMETHYLFORMAMIDE
    13700279 2
    13700279 2
    11124417 4
      0 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE
L15      0 N N DIMETHYLFORMAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE
          (N(W)N(W)DIMETHYLFORMAMIDE(W)2(W)2(W)4(W)TRIMETHYLPENTANEDIOLMO
          NOISOBUTYRATE)
```

```
=> s n n dimethylformamide 2 2 4 trimethylpentanediolmonoisobutyrate
    4039655 N
    4039655 N
      6058 DIMETHYLFORMAMIDE
```

# STN Columbus

```

13700279 2
13700279 2
11124417 4
    0 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE
L16      0 N N DIMETHYLFORMAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE
          (N(W)N(W)DIMETHYLFORMAMIDE(W)2(W)2(W)4(W)TRIMETHYLPENTANEDIOLM
          ONOISOBUTYRATE)

=> s n n dimethylformamide
    4039655 N
    4039655 N
    6058 DIMETHYLFORMAMIDE
L17      6031 N N DIMETHYLFORMAMIDE
          (N(W)N(W)DIMETHYLFORMAMIDE)

=> s 2 2 4 trimethylpentanediolmonoiso butyrate
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    13700279 2
    11124417 4
    0 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE
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=> s tri methyl pentane diol mono iso butyrate
    3192136 TRI
    11180613 METHYL
    151917 PENTANE
    317788 DIOL
    618794 MONO
    459129 ISO
    6724 BUTYRATE
L19      1 TRI METHYL PENTANE DIOL MONO ISO BUTYRATE
          (TRI(W)METHYL(W)PENTANE(W)DIOL(W)MONO(W)ISO(W)BUTYRATE)

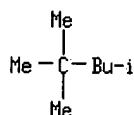
=> d 119

L19 ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2002 ACS
RN   37347-90-3  REGISTRY
CN   Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,5-pentanediol
      (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   2,2,4-Trimethylpentanediol monoisobutyrate
MF   C12 H24 O3
CI   IDS
LC   STN Files:  CA, CAPLUS, IFICDB, IFIPAT, IFIUIDB, USPATFULL

CM   1

CRN  50986-45-3
CMF  C8 H18 O2
CCI  IDS

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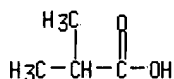
2 ( D1-OH )

# STN Columbus

CM 2

CRN 79-31-2

CMF C4 H8 O2



3 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file medline, uspatfull, ca, caplus, embase, embal, biosis, promt		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	121.56	266.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-12.39

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FILE 'PROMT' ENTERED AT 11:56:43 ON 26 APR 2002  
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=> d his

(FILE 'HOME' ENTERED AT 11:09:21 ON 26 APR 2002)

FILE 'HOME' ENTERED AT 11:11:39 ON 26 APR 2002

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 26 APR 2002

L1 1 S METCONAZOLE/CN  
L2 2 S 2 METHYLISOTHIAZOLIN 3 ONE



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L3 1 S 3 IODO 2 PROPYNYL N BUTYLCARBAMATE

FILE 'MEDLINE, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT' ENTERED AT  
11:34:54 ON 26 APR 2002

L4 42 S L2 AND L3  
L5 21 DUP REM L4 (21 DUPLICATES REMOVED)  
L6 34 S WEIGHT RATION  
L7 11047 S WEIGHT RATIO  
L8 11078 S L6 OR L7  
L9 0 S L8 AND L5  
L10 308577 S POLAR  
L11 991 S ALIPHATIC ALCOHOL  
L12 628373 S GLYCOL  
L13 929648 S L10 OR L11 OR L12  
L14 2 S L13 AND L5

FILE 'REGISTRY' ENTERED AT 11:44:24 ON 26 APR 2002

L15 0 S N N DIMETHYLFORAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRAT  
L16 0 S N N DIMETHYLFORMAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRA  
L17 6031 S N N DIMETHYLFORMAMIDE  
L18 0 S 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE  
L19 1 S TRI METHYL PENTANE DIOL MONO ISO BUTYRATE

FILE 'MEDLINE, USPATFULL, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT'  
ENTERED AT 11:56:43 ON 26 APR 2002

=> s 12 and 13

L20 51 L2 AND L3

=> dup rem

ENTER L# LIST OR (END):L20

PROCESSING COMPLETED FOR L20

L21 29 DUP REM L20 (22 DUPLICATES REMOVED)

=> s 121 not 15

L22 9 L21 NOT L5

=> d 122 1-9 bib, ab, kwic

L22 ANSWER 1 OF 9 USPATFULL

## Full Text

AN 2002:48562 USPATFULL  
TI Antimicrobial compositions  
IN Johansen, Charlotte, Holte, DENMARK  
Aaslyng, Dorrit, Vaerloose, DENMARK  
PA Novozymes A/S, Bagsvaerd, DENMARK, DK-2880 (non-U.S. corporation)  
PI US 2002028754 A1 20020307  
AI US 2001-899689 A1 20010705 (9)  
PRAI DK 2000-1121 20000721  
US 2000-220538P 20000725 (60)  
DT Utility  
FS APPLICATION  
LREP NOVOZYMES NORTH AMERICA, INC., C/O NOVO NORDISK OF NORTH AMERICA, INC.,  
405 LEXINGTON AVENUE, SUITE 6400, NEW YORK, NY, 10174  
CLMN Number of Claims: 18  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 1105  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The invention provides an antimicrobial composition comprising an  
enzymatic component and one or more non-enzymatic biocides; a method for  
killing or inhibiting microbial cells comprising a treatment with the

# STN Columbus

antimicrobial composition; and a detergent composition comprising the antimicrobial composition. The invention provides an improved antimicrobial effect.

IT 99-76-3, Methylparaben 120-47-8, Ethylparaben 2634-33-5, Benzisothiazolone 7782-44-7, Oxygen, biological studies 9000-92-4, Amylase 9001-02-9, Carbohydrase 9001-62-1, Lipase 9001-92-7, Protease 9012-54-8, Cellulase 9025-55-2, Xylanase 9032-75-1, Pectinase 26172-55-4, Methylchloroisothiazolinone 37325-54-5, Arabinase 39346-28-6, Galactanase 51377-41-4, Cutinase 60748-69-8, Mannanase 80498-15-3, Laccase 93229-67-5, Haloperoxidase (antimicrobial compn. contg. enzymic biocide)

IT 50-00-0, Formaldehyde, biological studies 52-51-7, Bronopol 54-64-8 55-56-1, Chlorhexidine 56-95-1, Chlorhexidine diacetate 57-15-8, Chlorobutanol 60-12-8, Phenethyl alcohol 62-38-4, Phenylmercuric acetate 64-17-5, Ethyl alcohol, biological studies 65-85-0, Benzoic acid, biological studies 69-72-7, Salicylic acid, biological studies 79-07-2, Chloroacetamide 90-43-7, [1,1'-Biphenyl]-2-ol 94-13-3, Propylparaben 94-18-8, Benzylparaben 94-26-8, Butylparaben 100-51-6, Benzyl alcohol, biological studies 101-20-2 110-44-1, Sorbic acid 111-30-8, Glutaraldehyde 121-54-0, Benzethonium chloride 122-99-6, Phenoxyethanol 127-82-2, Zinc phenolsulfonate 141-94-6, Hexetidine 520-45-6, Dehydroacetic acid 532-32-1, Sodium benzoate 828-00-2, Dimethoxane 1321-23-9, Chloroxylenol 1330-43-4, Sodium borate 2682-20-4, Methylisothiazolinone 3380-34-5, Triclosan 3697-42-5, Chlorhexidine dihydrochloride 4080-31-3, Quaternium 15 4191-73-5, Isopropylparaben 4247-02-3, Isobutylparaben 4418-26-2, Sodium dehydroacetate 6440-58-0 7488-56-4, Selenium disulfide 7681-55-2, Sodium iodate 10043-35-3, Boric acid, biological studies 12041-76-8, Dichlorobenzyl alcohol 13463-41-7, Zinc pyrithione 18472-51-0, Chlorhexidine digluconate 24634-61-5, Potassium sorbate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 31512-74-0, Polyquaternium 42 35691-65-7 39236-46-9, Imidazolidinyl urea 55406-53-6 68890-66-4, Piroctone olamine 70161-44-3, Sodium hydroxymethylglycinate 88841-33-2 133029-32-0, Polyaminopropyl biguanide 214542-29-7, Dimethyl hydroxymethyl pyrazole (non-enzymic biocides; antimicrobial compn. contg. enzymic biocide)

L22 ANSWER 2 OF 9 USPATFULL

## Full Text

AN 2001:59397 USPATFULL

TI Controlled release compositions

IN Ghosh, Tirthankar, Orelan, PA, United States  
Nungesser, Edwin H., Horsham, PA, United States

PA Rohm and Haas Company, Philadelphia, PA, United States (U.S. corporation)

PI US 6221374 B1 20010424

AI US 1998-73282 19980506 (9)

PRAI US 1997-47966P 19970528 (60)

DT Utility

FS Granted

EXNAM Primary Examiner: Levy, Neil S.

LREP Cairns, S. Matthew, Crimaldi, Kenneth

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 667

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are compositions containing biologically active compounds that slowly release the biologically active compound. These compositions may be directly incorporated into the locus to be protected or may be applied to a structure in a coating.

IT 52-51-7 101-20-2, 3,4,4'-Trichlorocarbanilide 137-26-8,

# STN Columbus

Tetramethylthiuram disulfide 137-30-4, Zinc dimethyl dithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5, 5-Chloro-2-(2,4-dichlorophenoxy)phenol 6317-18-6, Methylene bis thiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zinc ethylenebisdithiocarbamate 12427-38-2 13108-52-6, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine 13167-25-4 13463-41-7, Zinc 2-pyridinethiol-1-oxide 20018-09-1, Diiodomethyl-p-tolyl sulfone 21564-17-0, 2-Thiocyanomethylthiobenzothiazole 26172-55-4 26530-20-1, 2-Octyl-3-isothiazolone 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 55406-53-6, 3-Iodo-2-propynyl butylcarbamate 55965-84-9 64359-81-5, 4,5-Dichloro-2-Octyl-3-isothiazolone 64440-88-6 67412-55-9, N,N-Dimethyldichlorophenylurea 82633-79-2 83364-12-9 107846-11-7, Bromochlorodimethylhydantoin 216006-67-6

(controlled-release formulation of)

L22 ANSWER 3 OF 9 USPATFULL

## Full Text

AN 2000:156982 USPATFULL  
 TI Solid biocidal compositions  
 IN Ghosh, Tirthankar, Orelan, PA, United States  
 PA Rohm and Haas Company, Philadelphia, PA, United States (U.S. corporation)  
 PI US 6149927 20001121  
 AI US 1998-134318 19980814 (9)  
 PRAI US 1997-55750P 19970814 (60)  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Raymond, Richard L.  
 LREP Rogerson, Thomas D., Cairns, S. Matthew  
 CLMN Number of Claims: 10  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 683

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are solid compositions containing biocidal compounds that do not rapidly release the biocidal compounds when added to a locus to be protected and methods of controlling or inhibiting the growth of microorganisms in a locus comprising introducing into or onto the locus an effective amount of the solid compositions.  
 IT 52-51-7, 2-Bromo-2-nitro-1,3-propanediol 101-20-2, 3,4,4'-Trichlorocarbanilide 126-06-7 1897-45-6, 2,4,5,6-Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-4-isothiazolin-3-one 3489-81-4, 2-(2,4-Dichlorophenoxy)phenol 3811-73-2, Sodium 2-pyridinethiol-1-oxide 6317-18-6, Methylenebis(thiocyanate) 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 13463-41-7, Zinc 2-pyridinethiol-1-oxide 21564-17-0, 2-(Thiocyanomethylthio)benzothiazole 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 26530-20-1, 2-Octyl-4-isothiazolin-3-one 35691-65-7, 1,2-DiBromo-2,4-dicyanobutane 55406-53-6 64359-81-5 82633-79-2  
 (controlled-release solid biocidal compns. contg.)

L22 ANSWER 4 OF 9 USPATFULL

## Full Text

AN 2000:91554 USPATFULL  
 TI Controlled release composition incorporating metal oxide glass comprising biologically active compound

# STN Columbus

IN Ghosh, Tirthankar, Orelan, PA, United States  
 Nungesser, Edwin Hugh, Horsham, PA, United States  
 PA Rohm and Haas Company, Phila., PA, United States (U.S. corporation)  
 PI US 6090399 20000718  
 AI US 1998-189479 19981110 (9)  
 PRAI US 1997-69243P 19970211 (60)  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Page, Thurman K.; Assistant Examiner: Ghali, Isis  
 LREP Cairns, S Matthew, Rogerson, Thomas D.  
 CLMN Number of Claims: 15  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 1340  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Disclosed are compositions containing biologically active compounds that slowly release the biologically active compound. These compositions may be directly incorporated into the locus to be protected or may be applied to a structure in a coating.  
 IT 2682-20-4, 2-Methyl-3-isothiazolone 26172-55-4 28159-98-0,  
 2-(Methylthio)-4-tert-butylamino-6-(cyclopropylamino)-s-triazine  
 55406-53-6, 3-Iodo-2-propynyl butyl carbamate 64359-81-5,  
 4,5-Dichloro-2-n-octyl-3-isothiazolone  
 (controlled-release compns. contg. agricultural pesticide, microbicide or antifouling agent incorporated into metal oxide glass)

L22 ANSWER 5 OF 9 USPATFULL

## Full Text

AN 2000:27977 USPATFULL  
 TI Potentiation of biocide activity using an N-alkyl heterocyclic compound  
 IN Whittemore, Marilyn S., Germantown, TN, United States  
 Glover, Daniel E., Brighton, TN, United States  
 Rayudu, S. Rao, Germantown, TN, United States  
 PA Buckman Laboratories International Inc, Memphis, TN, United States (U.S. corporation)  
 PI US 6034081 20000307  
 AI US 1995-453001 19950530 (8)  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Spivack, Phyllis G.  
 LREP Morgan, Lewis Bockius LLP  
 CLMN Number of Claims: 19  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 835

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for increasing the effectiveness of a microbicide is described, wherein a microbicide and an N-alkyl heterocyclic compound are applied to a substrate or aqueous system subject to the growth of microorganisms. The N-alkyl heterocyclic compound is applied in an amount effective to increase the microbicidal activity of the microbicide. The N-alkyl heterocyclic compound has the formula: ##STR1## The variable "In" ranges from 5 to 17, and the heterocyclic ring defined by ##STR2## is a substituted or unsubstituted ring having four to eight members. Microbicidal compositions are described where the microbicide and the N-alkyl heterocyclic compound are present in a combined amount effective to control the growth of at least one microorganism. Methods for controlling the growth of microorganisms on various substrates and in various aqueous systems are also described. The combination of the microbicide and the N-alkyl heterocyclic compound is particularly useful as a microbicide in the leather industry, the lumber industry, the papermaking industry, the textile industry, the agricultural industry,

# STN Columbus

and the coating industry, as well as in industrial process waters.

IT 52-51-7D, 2-Bromo-2-nitropropane-1,3-diol, mixts. with N-alkylheterocyclic compds. 122-42-9D, IPC, mixts. with N-alkylheterocyclic compds. 1541-81-7D, N-Dodecylmorpholine, mixts. contg. 1704-28-5D, N-Dodecyl-2,6-dimethylmorpholine, mixts. contg. 2634-33-5D, 1,2-Benzisothiazol-3(2H)-one, mixts. with N-alkylheterocyclic compds. 2682-20-4D, mixts. with N-alkylheterocyclic compds. 2687-96-9D, N-Dodecyl-2-pyrrolidinone, mixts. contg. 2915-94-8 4303-67-7D, N-Dodecylimidazole, mixts. contg. 5917-47-5D, N-Dodecylpiperidine, mixts. contg. 10222-01-2D, 2,2-Dibromo-3-nitrilopropionamide, mixts. with N-alkylheterocyclic compds. 20422-09-7D, mixts. contg. 25376-38-9D, Tribromophenol, mixts. with N-alkylheterocyclic compds. 26172-55-4D, 5-Chloro-2-methyl-4-isothiazolin-3-one, mixts. with N-alkylheterocyclic compds. 55406-53-6D, IPBC, mixts. with N-alkylheterocyclic compds. 79089-29-5D, mixts. contg. 152720-68-8D, mixts. contg. 152720-69-9D, mixts. contg. 152720-70-2D, mixts. contg. (synergistic microbicides)

L22 ANSWER 6 OF 9 USPATFULL

## Full Text

AN 1999:138889 USPATFULL  
 TI Self-calibration method for a sensor  
 IN Kiyono, Satoshi, Sendai, Japan  
 PA Mitutoyo Corporation, Kawasaki, Japan (non-U.S. corporation)  
 PI US 5978743 19991102  
 AI US 1998-84221 19980526 (9)  
 PRAI JP 1997-142638 19970530  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Barlow, John; Assistant Examiner: Vo, Hien  
 LREP Oliff Berridge, PLC  
 CLMN Number of Claims: 11  
 ECL Exemplary Claim: 1  
 DRWN 29 Drawing Figure(s); 17 Drawing Page(s)  
 LN.CNT 815

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The method of self-calibrating for a sensor without using an additional device by using data sampling, an approximate value of linear errors obtained by performing the numerical integration of approximate values of a linear-error derivative, correcting the approximate value of the input value at each sampling point, and repeating the processing for correcting the approximate value of the linear error by necessary times.

IT 52-51-7 101-20-2, 3.4.4'-Trichlorocarbanilide 137-26-8, Tetramethylthiuram disulfide 137-30-4, Zincdimethyldithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5 6317-18-6, Methylene bis thiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zineb 12427-38-2 13108-52-6 13167-25-4, 2,4,6-Trichlorophenylmaleimide 13463-41-7, Zinc 2-pyridinethiol 1-oxide 20018-09-1, Diiodomethyl-p-tolyl sulfone 21564-17-0, 2-Thiocyanomethylthiobenzothiazole 26172-55-4 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 39758-90-2 55406-53-6 , 3-Iodo-2-propynyl butylcarbamate 55986-03-3, N,N-Dimethylchlorophenylurea 64359-81-5, 4,5-Dichloro-2-octyl-3-isothiazolone 64440-88-6 107846-11-7, BromochloroDimethylhydantoin 216006-67-6 248588-12-7 (microbicide formulated as a controlled-release compn.)

# STN Columbus

L22 ANSWER 7 OF 9 USPATFULL

## Full Text

AN 1999:14348 USPATFULL  
 TI Shoe insole  
 IN Mauch, Walter, Dusseldorf, Germany, Federal Republic of  
 PA Margit Mauch, Duesseldorf, Germany, Federal Republic of (non-U.S. corporation)  
 PI US 5864969 19990202  
 AI US 1998-84317 19980526  
 RLI Division of Ser. No. US 1997-944103, filed on 30 Sep 1997, now patented, Pat. No. US 5784811 which is a division of Ser. No. US 1994-200306, filed on 23 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1992-934466, filed on 15 Sep 1992, now abandoned  
 PRAI DE 1990-U2962 19900315  
 DT Utility  
 FS Granted  
 EXNAM Primary Examiner: Patterson, M. D.  
 LREP Nikaido Marmelstein Murray Oram LLP  
 CLMN Number of Claims: 13  
 ECL Exemplary Claim: 1  
 DRWN 3 Drawing Figure(s); 2 Drawing Page(s)  
 LN.CNT 350

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An insole for a shoe, which massages the reflex zones of the sole of the foot, has a flat basic sole (1) which matches the contour of the shoe and cushion-shaped elevations (5) associated with the reflex zones to be massaged. The elevations (5) are integrally formed on the basic sole (1) and consist, like the basic sole (1), of elastic foamed material having a Shore A hardness of 30° to 45°. The height of the summit region (7) of an elevation (5) above the upper surface of the basic sole (1) is one to two times the mean thickness of the region of the basic sole (1) adjacent to that elevation (5). This insole is easy to manufacture and has optimal massage properties.  
 IT 52-51-7 101-20-2, 3,4,4'-Trichlorocarbanilide 137-26-8, Tetramethylthiuram disulfide 137-30-4, Zinc dimethyldithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5 6317-18-6, Methylene bithiocyanate 6440-58-0 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zineb 12427-38-2, Maneb 13108-52-6, 2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine 13167-25-4, 2,4,6-Trichlorophenylmaleimide 13463-41-7, Zinc 2-pyridinethiol 1-oxide 20018-09-1, Diiodomethyl p-tolyl sulfone 21564-17-0, 2-Thiocyanomethylthiobenzothiazole 25658-72-4 26172-55-4 26530-20-1, 2-Octyl-3-isothiazolone 26656-82-6, Copper thiocyanate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 39758-90-2 55406-53-6, 3-Iodo-2-propynylbutylcarbamate 64440-88-6 67412-55-9, N,N-Dimethyldichlorophenylurea 82633-79-2 107846-11-7, Bromochlorodimethylhydantoin (polymer-incorporated biocide for controlled-release)

L22 ANSWER 8 OF 9 USPATFULL

## Full Text

AN 1998:131402 USPATFULL  
 TI Microemulsion and method  
 IN Nowak, Milton, South Orange, NJ, United States  
 PA Troy Corporation, Florham Park, NJ, United States (U.S. corporation)  
 PI US 5827522 19981027  
 AI US 1996-741038 19961030 (8)  
 DT Utility

## STN Columbus

FS           Granted

EXNAM   Primary Examiner: Woodward, Michael P.; Assistant Examiner: Brumback, Brenda G.

LREP   Banner Witcoff, Ltd.

CLMN   Number of Claims: 16

ECL   Exemplary Claim: 1

DRWN   No Drawings

LN.CNT 621

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB       A water miscible composition consisting essentially of a solvating surfactant selected from the group consisting of an alkoxyated castor oil, an alkoxyated hydrogenated castor oil and an alkoxyated rosin, and a biocidal biologically active material dissolved in said solvating surfactant useful to prepare aqueous microemulsions, micellar solutions or molecular solutions of said biocidal biologically active material upon mixing with water.

IT   90-43-7, 2-Phenylphenol   1725-81-1   2682-20-4, 2-Methyl-4-isothiazolin-3-one   20018-09-1, Diiodomethyl-p-tolyl sulfone **26172-55-4**, 5-Chloro-2-methyl-4-isothiazolin-3-one **55406-53-6**, IPBC 55406-54-7, Carbamic acid, cyclohexyl, 3-iodo-2-propynyl ester 60207-31-0, Azaconazole   65184-12-5   94361-06-5, Cyproconazole 128893-09-4  
(microemulsion of)

L22 ANSWER 9 OF 9 USPATFULL

Full Text

AN 95:94514 USPTAFULL

TI Stain-blocking and mildewcide resistant coating compositions

IN Thomassen, Ivar P., South Bend, IN, United States

PA The O'Brien Corporation, South Bend, IN, United States (U.S. corporation)

PI US 5460644 19951024

AI US 1993-166692 19931214 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Green, Anthony

LREP Emrich Dithmar

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 422

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A stain-blocking, mildewcide and biocide resistant aqueous coating compositions containing synthetic or natural polymer includes a soluble zinc ammonium complex. The zinc ammonium complex has the formula

$$\text{Zn}(\text{NH}_3) + 2n \text{ X} \cdot \text{H}_2 \text{O}$$

where n is a number from 4 to 6 and X is selected from a group consisting of acetate, borate, carbonate, citrate and phosphate.

IT 64-19-7D, Acetic acid, zinc ammonium complex 77-92-9D, Citric acid, zinc ammonium complex 463-79-6D, Carbonic acid, zinc ammonium complex 1897-45-6, Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 7664-38-2D, Phosphoric acid, zinc ammonium complex 10043-35-3D, Boric acid, zinc ammonium complex 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 26530-20-1 55406-53-6, 3-Iodo-2-propynyl butyl carbamate (stain-blocking and mildewcide-resistant coating compns.)

=> d his

## STN Columbus

(FILE 'HOME' ENTERED AT 11:09:21 ON 26 APR 2002)

FILE 'HOME' ENTERED AT 11:11:39 ON 26 APR 2002

FILE 'REGISTRY' ENTERED AT 11:31:18 ON 26 APR 2002

L1 1 S METCONAZOLE/CN  
L2 2 S 2 METHYLISOTHIAZOLIN 3 ONE  
L3 1 S 3 IODO 2 PROPYNYL N BUTYLCARBAMATE

FILE 'MEDLINE, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT' ENTERED AT  
11:34:54 ON 26 APR 2002

L4 42 S L2 AND L3  
L5 21 DUP REM L4 (21 DUPLICATES REMOVED)  
L6 34 S WEIGHT RATION  
L7 11047 S WEIGHT RATIO  
L8 11078 S L6 OR L7  
L9 0 S L8 AND L5  
L10 308577 S POLAR  
L11 991 S ALIPHATIC ALCOHOL  
L12 628373 S GLYCOL  
L13 929648 S L10 OR L11 OR L12  
L14 2 S L13 AND L5

FILE 'REGISTRY' ENTERED AT 11:44:24 ON 26 APR 2002

L15 0 S N N DIMETHYLFORMAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRAT  
L16 0 S N N DIMETHYLFORMAMIDE 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRA  
L17 6031 S N N DIMETHYLFORMAMIDE  
L18 0 S 2 2 4 TRIMETHYLPENTANEDIOLMONOISOBUTYRATE  
L19 1 S TRI METHYL PENTANE DIOL MONO ISO BUTYRATE

FILE 'MEDLINE, USPATFULL, CA, CAPLUS, EMBASE, EMBAL, BIOSIS, PROMT'  
ENTERED AT 11:56:43 ON 26 APR 2002

L20 51 S L2 AND L3  
L21 29 DUP REM L20 (22 DUPLICATES REMOVED)  
L22 9 S L21 NOT L5

=> s l21 and l19

L23 0 L21 AND L19

=> s l21 and l17

2 FILES SEARCHED...

6 FILES SEARCHED...

L24 0 L21 AND L17

=> s l21 and l13

L25 8 L21 AND L13

=> d l25 not l14

L14 IS NOT VALID HERE

For an explanation, enter "HELP DISPLAY".

=> s l25 not l14

THE L# REFERENCING L5 CANNOT BE USED. PLEASE CONTACT AN STN HELP DESK.

L26 0 L25 NOT L14

=> d l25 1-8 ibib, kwic

L25 ANSWER 1 OF 8 USPATFULL

### Full Text

ACCESSION NUMBER: 2002:48562 USPATFULL

TITLE: Antimicrobial compositions

INVENTOR(S): Johansen, Charlotte, Holte, DENMARK



# STN Columbus

PATENT ASSIGNEE(S): Aaslyng, Dorrit, Vaerlose, DENMARK  
Novozymes A/S, Bagsvaerd, DENMARK, DK-2880 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002028754	A1	20020307
APPLICATION INFO.:	US 2001-899689	A1	20010705 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2000-1121	20000721
	US 2000-220538P	20000725 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVOZYMES NORTH AMERICA, INC., C/O NOVO NORDISK OF NORTH AMERICA, INC., 405 LEXINGTON AVENUE, SUITE 6400, NEW YORK, NY, 10174	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1105	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD . . . the enzymatic activity (enhancing agents), and other conventional additives known in the art for stabilizing the enzyme(s), such as polyethylene glycol (PEG) and polymers like polyacrylate or polyvinyl pyrrolidone.

DETD . . . are given in GB 1483591. Liquid enzyme preparations may, for instance, be stabilized by adding a polyol such as propylene glycol, a sugar or sugar alcohol, lactic acid or boric acid according to established methods. Protected enzymes may be prepared according.

DETD [0180] The detergent composition comprises one or more surfactants, which may be non-ionic including semi-polar and/or anionic and/or cationic and/or zwitterionic. The surfactants are typically present at a level of from 0.1% to 60% by.

DETD [0184] The detergent may comprise one or more polymers. Examples are carboxymethylcellulose, poly(vinylpyrrolidone), poly (ethylene glycol), poly(vinyl alcohol), poly(vinylpyridine-N-oxide), poly(vinylimidazole), polycarboxylates such as polyacrylates, maleic/acrylic acid copolymers and lauryl methacrylate/acrylic acid copolymers.

DETD . . . of the detergent composition of the invention may be stabilized using conventional stabilizing agents, e.g., a polyol such as propylene glycol or glycerol, a sugar or sugar alcohol, lactic acid, boric acid, or a boric acid derivative, e.g., an aromatic borate.

IT 99-76-3, Methylparaben 120-47-8, Ethylparaben 2634-33-5, Benzisothiazolone 7782-44-7, Oxygen, biological studies 9000-92-4, Amylase 9001-02-9, Carbohydrase 9001-62-1, Lipase 9001-92-7, Protease 9012-54-8, Cellulase 9025-55-2, Xylanase 9032-75-1, Pectinase 26172-55-4, Methylchloroisothiazolinone 37325-54-5, Arabinase 39346-28-6, Galactanase 51377-41-4, Cutinase 60748-69-8, Mannanase 80498-15-3, Laccase 93229-67-5, Haloperoxidase (antimicrobial compn. contg. enzymic biocide)

IT 50-00-0, Formaldehyde, biological studies 52-51-7, Bronopol 54-64-8 55-56-1, Chlorhexidine 56-95-1, Chlorhexidine diacetate 57-15-8, Chlorobutanol 60-12-8, Phenethyl alcohol 62-38-4, Phenylmercuric acetate 64-17-5, Ethyl alcohol, biological studies 65-85-0, Benzoic acid, biological studies 69-72-7, Salicylic acid, biological studies 79-07-2, Chloroacetamide 90-43-7, [1,1'-Biphenyl]-2-ol 94-13-3, Propylparaben 94-18-8, Benzylparaben 94-26-8, Butylparaben 100-51-6, Benzyl alcohol, biological studies 101-20-2 110-44-1, Sorbic acid 111-30-8, Glutaraldehyde 121-54-0, Benzethonium chloride 122-99-6, Phenoxyethanol 127-82-2, Zinc phenolsulfonate 141-94-6,

## STN Columbus

Hexetidine 520-45-6, Dehydroacetic acid 532-32-1, Sodium benzoate 828-00-2, Dimethoxane 1321-23-9, Chloroxynol 1330-43-4, Sodium borate 2682-20-4, Methylisothiazolinone 3380-34-5, Triclosan 3697-42-5, Chlorhexidine dihydrochloride 4080-31-3, Quaternium 15 4191-73-5, Isopropylparaben 4247-02-3, Isobutylparaben 4418-26-2, Sodium dehydroacetate 6440-58-0 7488-56-4, Selenium disulfide 7681-55-2, Sodium iodate 10043-35-3, Boric acid, biological studies 12041-76-8, Dichlorobenzyl alcohol 13463-41-7, Zinc pyrithione 18472-51-0, Chlorhexidine digluconate 24634-61-5, Potassium sorbate 30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 31512-74-0, Polyquaternium 42 35691-65-7 39236-46-9, Imidazolidinyl urea 55406-53-6 68890-66-4, Piroctone olamine 70161-44-3, Sodium hydroxymethylglycinate 88841-33-2 133029-32-0, Polyaminopropyl biguanide 214542-29-7, Dimethyl hydroxymethyl pyrazole (non-enzymic biocides; antimicrobial compn. contg. enzymic biocide)

L25 ANSWER 2 OF 8 USPATFULL

Full Text

ACCESSION NUMBER: 2001:59397 USPATFULL  
 TITLE: Controlled release compositions  
 INVENTOR(S): Ghosh, Tirthankar, Orelan, PA, United States  
 Nungesser, Edwin H., Horsham, PA, United States  
 PATENT ASSIGNEE(S): Rohm and Haas Company, Philadelphia, PA, United States  
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6221374	B1	20010424
APPLICATION INFO.:	US 1998-73282		19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-47966P	19970528 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Levy, Neil S.	
LEGAL REPRESENTATIVE:	Cairns, S. Matthew, Crimaldi, Kenneth	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
LINE COUNT:	667	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . not limited to: acetonitrile, ethyl acetate, butyl acetate, toluene, xylene, methanol, ethanol, acetone, methyl ethyl ketone, methyl isobutyl ketone, ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol, and glycol ethers. When the compositions of the invention are to be used in an agricultural application, it is preferred that the . . .

SUMM . . . suitable carrier. Suitable carriers useful for microbicidal applications include, but are not limited to, water; organic solvent, such as ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol, xylene, toluene, acetone, methyl iso-butyl ketone, or esters; or mixtures thereof. The compositions may also be formulated as microemulsions, microemulsifiable. . .

CLM What is claimed is:  
 . . . group consisting of acetonitrile, ethyl acetate, butyl acetate, toluene, xylene, methanol, ethanol, acetone, methyl ethyl ketone, methyl iso-butyl ketone, ethylene glycol, diethylene glycol, propylene glycol, and dipropylene glycol.

IT 52-51-7 101-20-2, 3,4,4'-Trichlorocarbaniide 137-26-8,  
 Tetramethylthiuram disulfide 137-30-4, Zinc dimethyl dithiocarbamate 148-79-8, 2-(4-Thiazolyl)benzimidazole 719-96-0, N-

## STN Columbus

(Fluorodichloromethylthio)phthalimide 971-66-4 1085-98-9 1897-45-6,  
Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one  
2682-20-4, 2-Methyl-3-isothiazolone 3380-34-5, 5-Chloro-2-(2,4-  
dichlorophenoxy)phenol 6317-18-6, Methylene bis thiocyanate 6440-58-0  
10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 12122-67-7, Zinc  
ethylenebisdithiocarbamate 12427-38-2 13108-52-6,  
2,3,5,6-Tetrachloro-4-(methylsulfonyl)pyridine 13167-25-4 13463-41-7,  
Zinc 2-pyridinethiol-1-oxide 20018-09-1, Diiodomethyl-p-tolyl sulfone  
21564-17-0, 2-Thiocyanomethylthiobenzothiazole 26172-55-4  
26530-20-1, 2-Octyl-3-isothiazolone 26656-82-6, Copper thiocyanate  
30007-47-7, 5-Bromo-5-nitro-1,3-dioxane 35691-65-7,  
1,2-Dibromo-2,4-dicyanobutane 55406-53-6, 3-Iodo-2-propynyl  
butylcarbamate 55965-84-9 64359-81-5, 4,5-Dichloro-2-Octyl-3-  
isothiazolone 64440-88-6 67412-55-9, N,N-Dimethyldichlorophenylurea  
82633-79-2 83364-12-9 107846-11-7, Bromochlorodimethylhydantoin  
216006-67-6  
(controlled-release formulation of)

L25 ANSWER 3 OF 8 USPATFULL

Full Text

ACCESSION NUMBER: 2000:156982 USPATFULL  
TITLE: Solid biocidal compositions  
INVENTOR(S): Ghosh, Tirthankar, Orelan, PA, United States  
PATENT ASSIGNEE(S): Rohm and Haas Company, Philadelphia, PA, United States  
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6149927		20001121
APPLICATION INFO.:	US 1998-134318		19980814 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-55750P	19970814 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Raymond, Richard L.	
LEGAL REPRESENTATIVE:	Rogerson, Thomas D., Cairns, S. Matthew	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	683	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . suitable carrier. Suitable carriers useful for microbicidal applications include, but are not limited to, water; organic solvent, such as ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol, xylene, toluene, acetone, methyl isobutyl ketone, or esters; or mixtures thereof. The compositions may also be formulated as microemulsions, microemulsifiable. . .

## DETD

Material	g/L
Natrosol 250 MHR hydroxyethyl cellulose	3.6
Ethylene glycol	30
Water	134.4
Tamol 960 (40%) poly(methacrylic acid)	8.6
Triton CF-10 surfactant	3.1
Colloid 643 defoamer	1.2
Propylene glycol	40.8
Ti-Pure R-902 titanium dioxide	

## STN Columbus

270  
 Minex 4 filler pigment 191.3  
 Icecap K filler pigment 60  
 Attagel 50 clay 6

CLM What is claimed is:  
 . . . consisting of water, acetonitrile, ethyl acetate, butyl acetate, toluene, xylene, methanol, ethanol, acetone, methyl ethyl ketone, methyl isobutyl ketone, ethylene glycol, diethylene glycol, propylene glycol, and dipropylene glycol.

IT 52-51-7, 2-Bromo-2-nitro-1,3-propanediol 101-20-2, 3,4,4'-Trichlorocarbanilide 126-06-7 1897-45-6, 2,4,5,6-Tetrachloroisophthalonitrile 2634-33-5, 1,2-Benzisothiazolin-3-one 2682-20-4, 2-Methyl-4-isothiazolin-3-one 3489-81-4, 2-(2,4-Dichlorophenoxy)phenol 3811-73-2, Sodium 2-pyridinethiol-1-oxide 6317-18-6, Methylenebis(thiocyanate) 10222-01-2, 2,2-Dibromo-3-nitrilopropionamide 13463-41-7, Zinc 2-pyridinethiol-1-oxide 21564-17-0, 2-(Thiocyanomethylthio)benzothiazole 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 26530-20-1, 2-Octyl-4-isothiazolin-3-one 35691-65-7, 1,2-Dibromo-2,4-dicyanobutane 55406-53-6 64359-81-5 82633-79-2  
 (controlled-release solid biocidal compns. contg.)

L25 ANSWER 4 OF 8 USPATFULL

Full Text

ACCESSION NUMBER: 2000:91554 USPATFULL  
 TITLE: Controlled release composition incorporating metal oxide glass comprising biologically active compound  
 INVENTOR(S): Ghosh, Tirthankar, Orelan, PA, United States  
 Nungesser, Edwin Hugh, Horsham, PA, United States  
 PATENT ASSIGNEE(S): Rohm and Haas Company, Phila., PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6090399		20000718
APPLICATION INFO.:	US 1998-189479		19981110 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-69243P	19970211 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Page, Thurman K.	
ASSISTANT EXAMINER:	Ghali, Isis	
LEGAL REPRESENTATIVE:	Cairns, S Matthew, Rogerson, Thomas D.	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1340	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . and  $y=x-3$ ; and wherein the hydroxylic compound is selected from the group consisting of (C4-20)alkyl alcohols; (C7-10)aralkyl alcohols, (C2-20)glycols, poly(ethylene glycol) alkyl ethers, poly(ethylene glycol) aralkyl ethers, and poly(ethylene glycol) aryl ethers.

SUMM . . . and  $y=x-3$ ; and wherein the hydroxylic compound is selected from the group consisting of (C4-20)alkyl alcohols; (C7-10)aralkyl alcohols; (C2-20)glycols; poly(ethylene glycol) alkyl ethers; poly(ethylene glycol) aralkyl ethers; and poly(ethylene glycol) aryl ethers.

## STN Columbus

SUMM . . . least one hydroxyl group. Suitable hydroxylic compounds are selected from the group consisting of (C4-20)alkyl alcohols; (C7-10)aralkyl alcohols; (C2-20)glycols; poly(ethylene glycol) alkyl ethers; poly(ethylene glycol) aralkyl ethers; and poly(ethylene glycol) aryl ethers. Suitable hydroxylic compounds include, but are not limited to: hexanol, octanol, decanol, dodecanol, benzyl alcohol, phenyl ethanol, ethylene glycol, propylene glycol, didthylene glycol, dipropylene glycol, poly(ethylene glycol), polypropylene glycol, poly(ethylene glycol) methyl ether, poly(ethylene glycol) benzyl ethers, and poly(ethylene glycol) phenyl ethers. It is preferred that the hydroxylic compounds are hexanol, octanol, decanol, dodecanol, benzyl alcohol, phenyl ethanol, (C3-15)glycols, and poly(ethylene glycol) methyl ether. The average molecular weights of the poly(ethylene glycol) methyl ethers are preferably from 200 to 10,000, more preferably 350 to 5,000. Hydroxylic compounds having a boiling of 250°.

SUMM . . . Such crosslinking may be advantageous in situations where organic spacers are desired in the final glass. When alcohols or poly(ethylene glycol) methyl ethers are used as the hydroxylic compound, no crosslinking occurs between the hydroxylic compound and the metal alkoxide monomer. One of the advantages of using alcohols or poly(ethylene glycol) methyl ethers as the hydroxylic compound is that the resulting organo-metal glass contains the hydroxylic compound as a pendant group.

SUMM . . . liquefiable solids. When glycols are used, the organo-metal oxide glasses are mostly solids. When lower molecular weight alcohols and poly(ethylene glycol) methyl ethers are used, the organo-metal oxide glasses are liquids or solids. The organo-metal oxide glasses are solids when higher molecular weight alcohols and poly(ethylene glycol) methyl ethers are used. For example, when a poly(ethylene glycol) methyl ether having an average molecular weight of 350 is used, the resulting organo-metal oxide glass is a low melting solid, whereas the glass is a solid when a poly(ethylene glycol) methyl ether having an average molecular weight of 750 is used.

SUMM . . . are not limited to, water; organic solvent; or mixtures thereof. Suitable organic solvents include, but are not limited to: ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol, xylene, toluene, acetone, methyl iso-butyl ketone, and esters. The compositions may also be formulated as microemulsions, microemulsifiable concentrates, emulsions, emulsifiable.

DETD . . . and 2-methyl-3-isothiazolone in a 3:1 ratio.

C3 Iodopropynyl butyl carbamate

C4 2-Methylthio-4-t-butylamino-6-cyclopropylamino-s-triazine

C5 2',6'-Dibromo-2-methyl-4'-trifluoromethoxy-4-trifluoromethyl-1,3-thiazole-5-carboxanilide (also known as thifluzamide)

Hydroxylic Compound:

H1 Propylene glycol

H2 Methoxy(polyethylene) glycol MW = 350

H3 Methoxy(polyethylene) glycol MW = 750

Inert Material:

I1 Zirconium hydroxide

I2 Titanium dioxide

I3 Aluminum hydroxide

I4 para-Cresol

I5 Dextrane (a polysaccharide)

I6 Phenol-formaldehyde condensate having MW = 2000.

CLM What is claimed is:

. . . and  $y=x-3$ ; and wherein the hydroxylic compound is selected from the group consisting of (C4-20)alkyl alcohols; (C7-10)aralkyl

## STN Columbus

alcohols; (C2-20)glycols; poly(ethylene glycol) alkyl ethers; poly(ethylene glycol) aralkyl ethers; and poly(ethylene glycol) Aryl ethers.

. . . and y=x-3; and wherein the hydroxylic compound is selected from the group consisting of (C4-20)alkyl alcohols; (C7-10)aralkyl alcohols; (C2-20)glycols; poly(ethylene glycol) alkyl ethers; poly(ethylene glycol) aralkyl ethers; and poly(ethylene glycol) aryl ethers.

IT 2682-20-4, 2-Methyl-3-isothiazolone 26172-55-4 28159-98-0,  
2-(Methylthio)-4-tert-butylamino-6-(cyclopropylamino)-s-triazine  
55406-53-6, 3-Iodo-2-propynyl butyl carbamate 64359-81-5,  
4,5-Dichloro-2-n-octyl-3-isothiazolone  
(controlled-release compns. contg. agricultural pesticide, microbicide  
or antifouling agent incorporated into metal oxide glass)

L25 ANSWER 5 OF 8 USPATFULL

Full Text

ACCESSION NUMBER: 2000:27977 USPATFULL  
TITLE: Potentiation of biocide activity using an N-alkyl  
heterocyclic compound  
INVENTOR(S): Whittemore, Marilyn S., Germantown, TN, United States  
Glover, Daniel E., Brighton, TN, United States  
Rayudu, S. Rao, Germantown, TN, United States  
PATENT ASSIGNEE(S): Buckman Laboratories International Inc, Memphis, TN,  
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6034081		20000307
APPLICATION INFO.:	US 1995-453001		19950530 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Spivack, Phyllis G.		
LEGAL REPRESENTATIVE:	Morgan, Lewis Bockius LLP		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
LINE COUNT:	835		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . emulsions. 1,2-benzisothiazoline-3-one is available from ICI Specialty Chemicals, Melbourne, Australia as the product Proxel GXL-20, an aqueous solution of dipropylene glycol 20% by weight of 1,2-benzisothiazoline-3-one as the active ingredient.  
1,2-Benzisothiazoline-3-one has the following chemical structure:  
##STR9##

IT 52-51-7D, 2-Bromo-2-nitropropane-1,3-diol, mixts. with  
N-alkylheterocyclic compds. 122-42-9D, IPC, mixts. with  
N-alkylheterocyclic compds. 1541-81-7D, N-Dodecylmorpholine, mixts.  
contg. 1704-28-5D, N-Dodecyl-2,6-dimethylmorpholine, mixts. contg.  
2634-33-5D, 1,2-Benzisothiazol-3(2H)-one, mixts. with N-alkylheterocyclic  
compds. 2682-20-4D, mixts. with N-alkylheterocyclic compds..  
2687-96-9D, N-Dodecyl-2-pyrrolidinone, mixts. contg. 2915-94-8  
4303-67-7D, N-Dodecylimidazole, mixts. contg. 5917-47-5D,  
N-Dodecylpiperidine, mixts. contg. 10222-01-2D, 2,2-Dibromo-3-  
nitrilopropionamide, mixts. with N-alkylheterocyclic compds.  
20422-09-7D, mixts. contg. 25376-38-9D, Tribromophenol, mixts. with  
N-alkylheterocyclic compds. 26172-55-4D, 5-Chloro-2-methyl-4-  
isothiazolin-3-one, mixts. with N-alkylheterocyclic compds.  
55406-53-6D, IPBC, mixts. with N-alkylheterocyclic compds.  
79089-29-5D, mixts. contg. 152720-68-8D, mixts. contg. 152720-69-9D,  
mixts. contg. 152720-70-2D, mixts. contg.

## STN Columbus

(synergistic microbicides)

L25 ANSWER 6 OF 8 USPATFULL

Full Text

ACCESSION NUMBER: 1998:131402 USPATFULL  
 TITLE: Microemulsion and method  
 INVENTOR(S): Nowak, Milton, South Orange, NJ, United States  
 PATENT ASSIGNEE(S): Troy Corporation, Florham Park, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5827522		19981027
APPLICATION INFO.:	US 1996-741038		19961030 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Woodward, Michael P.		
ASSISTANT EXAMINER:	Brumback, Brenda G.		
LEGAL REPRESENTATIVE:	Banner Witcoff, Ltd.		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
LINE COUNT:	621		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . co-surfactants are employed to produce a stable, water miscible composition. Use of an additional water immiscible solvent, an oil, a non-polar solvent, etc., is also unnecessary, though such a constituent may be advantageous in some circumstances as hereinafter described.

IT 90-43-7, 2-Phenylphenol 1725-81-1 2682-20-4, 2-Methyl-4-isothiazolin-3-one 20018-09-1, Diiodomethyl-p-tolyl sulfone 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 55406-53-6, IPBC 55406-54-7, Carbamic acid, cyclohexyl, 3-iodo-2-propynyl ester 60207-31-0, Azacozole 65184-12-5 94361-06-5, Cyproconazole 128893-09-4 (microemulsion of)

L25 ANSWER 7 OF 8 CA COPYRIGHT 2002 ACS

Full Text

ACCESSION NUMBER: 135:124156 CA  
 TITLE: Bactericide combinations in detergents  
 INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip  
 PATENT ASSIGNEE(S): Robert McBride Ltd., UK  
 SOURCE: Brit. UK Pat. Appl., 53 pp.  
 CODEN: BAXXDU  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001
IT 50-00-0, Formaldehyde, uses		50-00-0D, Formaldehyde, reaction products, uses		
50-14-6		50-21-5, uses	50-65-7	50-99-7, D-Glucose, uses
51-03-6		51-28-5, uses	52-51-7	52-68-6
55-56-1		55-86-7	56-35-9	56-36-0
57-09-0		57-10-3, Hexadecanoic acid, uses	57-15-8	57-24-9,
Strychnidin-10-one		57-55-6D, Propylene glycol, reaction products with formaldehyde	58-36-6	58-89-9
60-12-8, Benzeneethanol		60-51-5	61-73-4	62-38-4
uses		62-73-7	63-25-2	64-18-6, Formic acid, uses
64-18-6D, Formic acid, reaction products		64-19-7D, Acetic acid, derivs., uses	64-69-7	

## STN Columbus

67-20-9 67-63-0D, 2-Propanol, reaction products with boron trifluoride and 5-ethylidenebicyclo[2.2.1]hept-2-ene, uses 67-66-3, uses 67-68-5, uses 67-97-0 69-72-7, uses 70-55-3 71-23-8, 1-Propanol, uses 71-41-0, 1-Pentanol, uses 72-43-5 72-56-0 74-83-9, uses 75-12-7D, Formamide, reaction products with formaldehyde, uses 75-21-8, Oxirane, uses 75-31-0, 2-Propanamine, uses 75-91-2 76-06-2 76-22-2 76-39-1 76-87-9 77-42-9 77-48-5 77-49-6 77-78-1D, Dimethyl sulfate, quaternized with 9-octadecenoic acid/triethanolamine reaction products 77-78-1D, Dimethyl sulfate, quaternized with fatty acid/triethanolamine reaction products 77-92-9, uses 78-59-1 78-69-3 78-70-6 78-79-5D, Isoprene, reaction products with acetic acid 78-83-1, uses 78-92-2, 2-Butanol 79-07-2 79-08-3 79-11-8, uses 79-11-8D, Chloroacetic acid, reaction products with N-C10-16-alkyltrimethylenediamines 79-11-8D, Acetic acid, chloro-, reaction products with diethylenetriamine N-mono- and di-C8-18-alkyl derivs., uses 79-14-1, uses 79-20-9 79-21-0, Ethaneperoxoic acid 79-69-6 79-92-5D, 2,2-Dimethyl-3-methylenebicyclo[2.2.1]heptane, reaction products with 2-methoxyphenol, hydrogenated 80-26-2 80-27-3 80-46-6 80-71-7 81-07-2D, 1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, salts with quaternary ammonium compds., benzyl-C12-18-alkyldimethyl (1:1) 81-14-1 81-15-2 81-81-2 81-82-3 82-66-6 83-34-1 83-79-4 84-65-1, 9,10-Anthracenedione 84-66-2 84-74-2 85-91-6 87-10-5 87-17-2 87-20-7 87-22-9 87-90-1 88-04-0 88-06-2 88-14-2, 2-Furancarboxylic acid 88-84-6 89-68-9 89-78-1 89-79-2 89-83-8 90-05-1D, Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane, hydrogenated 90-13-1 90-17-5 90-43-7, [1,1'-Biphenyl]-2-ol 90-43-7D, [1,1'-Biphenyl]-2-ol, chlorinated 90-87-9 91-20-3, Naphthalene, uses 91-61-2 91-64-5, 2H-1-Benzopyran-2-one 93-15-2 93-16-3 93-51-6 93-59-4, Benzenecarboperoxoic acid 93-65-2 93-69-6 93-89-0 94-13-3 94-18-8 94-26-8 94-36-0, uses 94-96-2 95-14-7, 1H-Benzotriazole 95-41-0 95-48-7, uses 96-24-2 96-29-7 97-23-4 97-24-5 97-54-1 97-77-8 98-01-1, 2-Furancarboxaldehyde, uses 98-11-3D, Benzenesulfonic acid, mono-C10-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-ylcarbamate, uses 98-53-3 98-55-5 99-49-0 99-76-3 99-86-5 100-37-8 100-44-7, uses 100-51-6, Benzenemethanol, uses 100-52-7, Benzaldehyde, uses 100-73-2 100-86-7 100-89-0 100-97-0, uses 101-20-2 101-21-3 101-39-3 101-53-1 101-84-8 101-85-9 102-17-0 102-20-5 102-30-7 102-71-6D, copper complexes 102-71-6D, Triethanolamine, reaction products with 9-octadecenoic acid, di-Me sulfate-quaternized 102-98-7 103-05-9 103-26-4 103-52-6 103-82-2, Benzeneacetic acid, uses 103-95-7 104-09-6 104-21-2 104-29-0 104-53-0, Benzenepropanal 104-54-1 104-55-2 104-60-9 104-61-0 104-62-1 104-67-6 104-76-7 104-78-9 104-87-0 105-01-1 105-66-8 105-85-1 105-87-3 105-90-8 106-22-9 106-24-1 106-25-2 106-30-9 106-44-5, uses 106-46-7 106-70-7 106-72-9 106-73-0 106-79-6 106-88-7 106-89-8, uses 107-02-8, 2-Propenal, uses 107-21-1D, Ethylene glycol, reaction products with formaldehyde 107-22-2, Ethanedial 107-41-5 107-43-7 107-75-5 107-95-9D,  $\beta$ -Alanine, N-coco alkyl derivs. 108-16-7 108-39-4, uses 108-64-5 108-80-5, 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione 108-88-3, uses 108-89-4 108-94-1, Cyclohexanone, uses 108-95-2, Phenol, uses 108-95-2D, Phenol, polypropene derivs., uses 108-99-6 109-21-7 109-89-7, uses 110-05-4 110-15-6, Butanedioic acid, uses 110-27-0 110-38-3 110-41-8 110-44-1 110-58-7, 1-Pentanamine 110-62-3, Pentanal 110-75-8 110-86-1, Pyridine, uses 110-89-4, Piperidine, uses 111-11-5 111-27-3, 1-Hexanol, uses 111-30-8, Pentanedial 111-40-0D, 1,2-Ethanediamine, N-(2-aminoethyl)-, reaction products with 1-chlorooctane

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)



# STN Columbus

IT 111-40-0D, Diethylenetriamine, reaction products with chloroacetic acid, N-mono- and di-C8-18-alkyl derivs. 111-41-1D, 2-(2-Aminoethyl)aminoethanol, reaction with coco fatty acids, quaternized 111-42-2, uses 111-46-6D, Diethylene glycol, reaction products with formaldehyde 111-61-5 111-81-9 111-82-0 111-85-3D, 1-Chlorooctane, reaction products with acetic acid and diethylenetriamine 111-85-3D, 1-Chlorooctane, reaction products with N-(2-aminoethyl)-1,2-ethanediamine 111-92-2 112-00-5 112-02-7 112-18-5 112-34-5D, 2-(2-Butoxyethoxy)ethanol, reaction products with formaldehyde 112-38-9, 10-Undecenoic acid 112-39-0 112-43-6, 10-Undecen-1-ol 112-45-8, 10-Undecenal 112-53-8, 1-Dodecanol 112-54-9, Dodecanal 112-59-4 112-61-8 112-69-6 112-72-1, 1-Tetradecanol 112-75-4 112-80-1D, 9-Octadecenoic acid (9Z)-, reaction products with triethanolamine, di-Me sulfate-quaternized, uses 112-90-3 113-48-4 114-26-1 114-63-6 115-29-7 115-31-1 115-32-2 115-71-9 116-25-6 117-18-0 117-52-2 118-52-5 118-55-8 118-58-1 118-71-8 118-79-6 119-36-8 119-61-9, uses 120-32-1 120-47-8 120-50-3 120-51-4 120-57-0, 1,3-Benzodioxole-5-carboxaldehyde 120-72-9, 1H-Indole, uses 121-32-4 121-33-5 121-44-8, uses 121-54-0 121-65-3 121-75-5 122-07-6 122-14-5 122-18-9 122-19-0 122-34-9 122-40-7 122-42-9 122-48-5 122-67-8 122-69-0 122-70-3 122-78-1, Benzeneacetaldehyde 122-97-4, Benzenepropanol 122-99-6 123-05-7 123-11-5, uses 123-29-5 123-30-8 123-32-0 123-66-0 124-04-9, Hexanedioic acid, uses 124-07-2, Octanoic acid, uses 124-09-4, 1,6-Hexanediamine, uses 124-13-0, Octanal 124-19-6, Nonanal 124-22-1, 1-Dodecanamine 124-43-6 124-65-2 124-76-5 126-06-7 126-11-4 126-15-8 126-91-0 127-41-3 127-43-5 127-51-5 127-65-1 127-90-2 127-91-3 128-03-0 128-04-1 128-08-5 128-09-6 129-06-6 131-11-3 131-52-2 132-27-4 133-06-2 133-07-3 133-53-9 134-20-3 134-28-1 134-62-3 135-79-5 136-45-8 136-53-8 136-77-6 136-85-6 137-16-6 137-26-8 137-30-4 137-40-6 137-41-7 137-42-8 138-93-2 139-07-1 139-08-2 140-10-3, uses 140-11-4 140-39-6 140-72-7 140-95-4 141-94-6 142-18-7 142-59-6 142-62-1, Hexanoic acid, uses 142-71-2 143-07-7, Dodecanoic acid, uses 143-08-8, 1-Nonanol 143-14-6, 9-Undecenal 143-50-0 144-55-8, Carbonic acid monosodium salt, uses 144-62-7, Ethanedioic acid, uses 147-71-7 148-24-3, 8-Quinolinol, uses 148-79-8 149-30-4, 2(3H)-Benzothiazolethione 149-57-5 150-78-7 150-84-5 151-01-9 151-21-3, uses 156-62-7 298-12-4 299-84-3 300-76-5 302-01-2, Hydrazine, uses 330-54-1 333-41-5 334-48-5, Decanoic acid 359-37-5 379-52-2 404-86-4 470-43-9 470-82-6 473-34-7 475-20-7D, reaction products with formic acid and boron trifluoride 488-10-8 489-86-1 498-81-7 499-83-2, 2,6-Pyridinedicarboxylic acid 502-61-4 504-24-5, 4-Pyridinamine 507-60-8 507-70-0 514-51-2 515-00-4 515-69-5 520-45-6 527-07-1 532-32-1 533-74-4 534-18-9 535-89-7 536-59-4 536-60-7 538-71-6 539-82-2 539-90-2 541-91-3 544-63-8, Tetradecanoic acid, uses 551-92-8 556-61-6 557-08-4 576-55-6 577-11-7 582-25-2 584-79-2 589-38-8, 3-Hexanone 589-66-2 591-12-8 597-09-1 615-62-3 620-23-5 621-82-9, uses 624-15-7 625-51-4 626-82-4 628-63-7 638-37-9, Butanedial 639-58-7 643-79-8, 1,2-Benzenedicarboxaldehyde 646-06-0, 1,3-Dioxolane 659-40-5 683-10-3 688-73-3D, Stannane, tributyl-, mono(naphthenoyloxy) derivs. 692-86-4 695-10-3D, 1H-Imidazole-1-ethanol, 4,5-dihydro-, 2-nortall-oil alkyl derivs. 696-59-3 699-02-5 705-86-2 706-14-9 719-96-0 731-27-1 762-26-5 770-35-4 789-02-6 821-55-6, 2-Nonanone 825-51-4 828-00-2 870-72-4 886-50-0 900-95-8 925-78-0, 3-Nonanone 929-73-7 959-55-7 971-66-4 991-42-4 996-35-0 1000-82-4 1066-30-4 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses) (bactericide combinations in detergents)

IT 7757-83-7 7758-02-3, Potassium bromide (KBr), uses 7758-19-2 7758-89-6, Copper chloride (CuCl) 7758-98-7, Sulfuric acid copper(2+)

# STN Columbus

salt (1:1), uses 7758-99-8 7775-09-9 7775-27-1 7778-39-4, Arsenic acid (H3AsO4) 7778-43-0 7778-50-9 7778-54-3 7778-66-7 7779-27-3 7779-73-9 7779-78-4 7779-81-9 7782-44-7, Oxygen, uses 7782-50-5, Chlorine, uses 7783-20-2, Sulfuric acid diammonium salt, uses 7783-90-6, Silver chloride (AgCl), uses 7786-29-0 7786-30-3, Magnesium chloride (MgCl2), uses 7789-09-5 7789-12-0 7789-29-9, Potassium fluoride (K(HF2)) 7789-33-5, Iodine bromide (IBr) 7790-28-5 7790-99-0, Iodine chloride (ICl) 7803-51-2, Phosphine 8000-41-7, Terpeneol 8007-35-0 9001-37-0 9002-91-9 9003-07-0D, Polypropylene, phenol derivs. 9003-29-6 9003-63-8 9003-99-0, Peroxidase 9004-82-4 9004-98-2 10028-15-6, Ozone, uses 10031-43-3 10032-15-2 10043-35-3, Boric acid (H3BO3), uses 10049-04-4, Chlorine oxide (ClO2) 10058-23-8 10101-41-4 10124-37-5 10154-75-3 10187-52-7 10198-23-9 10222-01-2 10235-63-9 10294-64-1 10332-33-9 10339-55-6 10345-79-6 10377-60-3 10378-23-1 10380-28-6 10453-86-8 10460-00-1 10482-56-1 10486-00-7 10543-57-4 10588-01-9 10588-15-5 10595-49-0 10605-21-7 10605-21-7D, Methyl 1H-benzimidazol-2-ylcarbamate, compds. with benzenesulfonic acid mono-ClO-14-alkyl derivs. 11031-45-1, Santalol 11050-62-7 11084-85-8, Sodium hypochlorite phosphate (Na13(ClO)(PO4)4) 11096-42-7 12008-41-2, Boron sodium oxide (B8Na2O13) 12062-24-7 12069-69-1 12122-67-7 12124-97-9, Ammonium bromide ((NH4)Br) 12179-04-3 12267-73-1 12280-03-4 12427-38-2 13014-03-4 13019-22-2, 9-Decen-1-ol 13052-19-2 13108-52-6 13149-79-6 13167-25-4 13197-76-7 13254-34-7 13351-61-6 13426-91-0 13435-05-7 13463-41-7 13463-67-7, Titanium oxide (TiO2), uses 13516-27-3 13517-11-8, Hypobromous acid 13532-18-8 13590-97-1 13701-59-2 13707-65-8 13720-12-2 13755-29-8 13824-96-9 13826-83-0 13840-33-0 13863-41-7, Bromine chloride (BrCl) 13877-91-3 13980-04-6 14073-97-3 14371-10-9 14548-60-8 14576-08-0 14667-55-1 14676-61-0D, 1-Propanamine, 3-(tridecyloxy)-, branched 14762-38-0 14816-18-3 14915-37-8 14936-67-5 15323-35-0 15435-29-7 15510-55-1 15627-09-5 15630-89-4 15707-23-0 15733-22-9 15739-09-0 15809-19-5 15986-80-8 16079-88-2 16219-75-3D, 5-Ethylidenebicyclo[2.2.1]hept-2-ene, reaction products with boron trifluoride and 2-propanol 16228-00-5 16409-43-1 16491-36-4 16752-77-5 16828-95-8 16871-71-9 16893-85-9 16919-19-0 16949-65-8 16961-83-4 17084-08-1 17342-21-1 17804-35-2 18181-70-9 18181-80-1 18205-85-1 18339-16-7 18472-51-0 18479-54-4 18479-57-7 18675-16-6 18675-17-7 18794-84-8 18829-56-6 18854-01-8 18972-56-0 19014-05-2 19093-20-0 19379-90-9 19388-87-5 19578-81-5 19766-89-3 19819-98-8 19870-74-7 20013-73-4 20018-09-1 20543-04-8 20545-92-0 20662-57-1 20679-58-7 20834-59-7 20859-73-8, Aluminum phosphide (AlP) 21129-27-1 21145-77-7 21564-17-0 21757-82-4 21834-92-4 22009-37-6 22205-45-4, Copper sulfide (Cu2S) 22221-10-9 22248-79-9 22781-23-3 22882-89-9 22882-91-3 22936-75-0 22981-54-0 23031-36-9 23495-12-7 23560-59-0 23564-05-8 23726-92-3 23726-94-5 23787-90-8 24019-05-4 24048-13-3 24111-17-9 24124-25-2 24291-45-0 24634-61-5 24720-09-0 24851-98-7 25068-14-8 25155-18-4 25155-29-7 25167-82-2 25225-10-9 25254-50-6 25265-71-8 25304-14-7 25377-70-2 25628-84-6 25655-41-8 25988-97-0 26002-80-2 26062-79-3 26172-55-4 26248-98-6 26354-18-7 26530-03-0 26530-20-1 26545-49-3 26617-87-8 26635-93-8 26781-23-7 27083-27-8 27176-87-0 27236-65-3 27253-29-8 27323-41-7 27697-50-3 28069-74-1 28159-98-0 28219-61-6 28302-36-5 28387-62-4

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)

(bactericide combinations in detergents)

IT 28434-00-6 28434-01-7 28558-32-9 28645-51-4, Oxacycloheptadec-10-en-2-one 28728-61-2 28772-56-7 28777-01-7 28805-58-5 29232-93-7

## STN Columbus

29350-73-0 29463-06-7 29873-30-1 29873-33-4 29973-13-5  
 30007-47-7 30388-01-3 30560-19-1 30772-79-3 31075-24-8  
 31195-95-6 31218-83-4 31501-11-8 31512-74-0 31906-04-4  
 32276-75-8 32289-58-0 32388-55-9 33089-61-1 33704-61-9  
 33939-64-9 33972-49-5 34375-28-5 34395-72-7 34413-35-9  
 34681-10-2 34911-46-1 35109-57-0 35206-70-3 35285-68-8  
 35285-69-9 35367-38-5 35445-70-6 35554-44-0 35575-96-3  
 35691-65-7 35950-52-8 36059-35-5 36362-09-1 36631-23-9  
 36734-19-7 37139-99-4 37228-06-1 37306-10-8, Chromium copper boride  
 38083-17-9 38260-54-7 38460-95-6D, 10-Undecenoyl chloride, reaction  
 products with protein hydrolyzates, potassium salts 38465-60-0  
 38664-03-8 38811-14-2 39236-46-9 39300-45-3 39354-45-5  
 39515-40-7 39650-63-0, 1H-Benzimidazole-2-pentanamine 39660-17-8  
 39758-90-2 40027-80-3 40188-41-8 40596-69-8 41096-46-2  
 41877-16-1 42370-07-0 42436-34-0 42534-61-2 43143-11-9  
 44992-01-0 46830-22-2 46917-07-1 50542-90-0 50650-76-5  
 51015-28-2 51015-29-3 51026-28-9 51200-87-4 51566-62-2  
 51580-86-0 51630-58-1 52299-20-4 52304-36-6 52315-07-8  
 52513-11-8 52645-53-1 52684-21-6 52684-23-8 52918-63-5  
 53082-58-9 53488-14-5 53720-80-2 53727-58-5 54262-78-1  
 54406-48-3 54427-07-5, Copper boride 54464-57-2 54720-15-9  
 54779-21-4 55142-08-0 55406-53-6 55566-30-8 55722-59-3  
 55965-84-9 56073-07-5 56073-10-0 56148-34-6 56148-37-9  
 56148-40-4 56289-76-0 56427-82-8 56709-13-8 56996-62-4, Glokill 77  
 57006-76-5 57382-78-2 57413-95-3 57503-06-7 57520-17-9  
 57576-09-7 57837-19-1 58206-95-4 58249-25-5 58769-20-3  
 59323-76-1 59324-17-3 59355-53-2, Citrex S 5 60114-62-7D,  
 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl  
 derivs., inner salts 60168-88-9 60207-31-0 60207-90-1 60239-68-1  
 60568-05-0 60736-58-5 60763-40-8 60784-31-8 60812-23-9  
 61692-81-7 61692-84-0 61702-91-8 61842-86-2 62476-84-0D,  
 Guanidine, N,N''-1,3-propanediylbis-, N-coco alkyl derivs., acetates  
 62755-21-9 63085-03-0 63333-35-7 63500-71-0 63619-09-0  
 63943-38-4 64359-81-5 64440-88-6 64628-44-0 64665-57-2  
 64988-06-3 65059-43-0 65289-97-6 65289-98-7 65290-00-8  
 65400-98-8 65630-22-0 65694-09-9 65733-16-6 65733-18-8  
 66062-78-0 66063-61-4 66065-55-2D, Benzenemethanaminium,  
 N-(3-aminopropyl)-N,N-dimethyl-, chloride, N-coco acyl derivs.  
 66091-24-5D, 1-Propanaminium, 3-amino-N-ethyl-N,N-dimethyl-, N-lanolin  
 acyl derivs., Et sulfates 66204-44-2 66215-27-8 66789-18-2  
 66841-25-6 67100-72-5 67171-34-0 67185-04-0 67228-83-5  
 67485-29-4 67508-69-4 67633-95-8 67633-98-1 67633-99-2  
 67634-01-9 67634-12-2 67634-14-4 67634-15-5 67634-25-7  
 67634-26-8 67747-09-5 67772-01-4 67801-33-6 67801-44-9  
 67801-47-2 67845-46-9 67846-68-8 68085-85-8 68134-42-9  
 68155-66-8 68155-67-9 68188-98-7 68213-85-4 68224-19-1  
 68359-37-5 68480-15-9 68480-16-0 68527-77-5 68527-84-4  
 68738-96-5 68797-57-9 68890-66-4 68901-15-5 68929-85-1  
 68959-20-6 68991-96-8 68991-97-9 69094-18-4 69153-35-1  
 70161-44-3 70680-04-5 70680-05-6 70754-17-5 70775-75-6  
 70788-30-6 70799-70-1 70862-65-6 71297-57-9 71297-58-0  
 71297-59-1 71646-36-1 72089-08-8 72490-01-8 72963-72-5  
 73264-51-4 73337-96-9D,  $\beta$ -Alanine, N-(2-aminoethyl)-N-(2-  
 hydroxyethyl)-, N-C8-18-acyl derivs. 74774-67-7  
 RL: BUU (Biological use, unclassified); NUU (Other use, unclassified);  
 BIOL (Biological study); USES (Uses)  
 (bactericide combinations in detergents)

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ACCESSION NUMBER:

118:197134 CA

TITLE:

Temporary health effects from exposure to water-borne

## STN Columbus

paints  
AUTHOR(S): Ulfvarson, Ulf; Alexandersson, Rolf; Dahlqvist,  
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Jan  
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44, Swed.  
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IT 56-35-9 57-55-6, Propylene **glycol**, miscellaneous 84-74-2,  
Dibutyl phthalate 107-20-0 107-41-5, Hexylene **glycol**  
121-44-8, Triethylamine, miscellaneous 122-99-6, Dalpad a 2634-33-5,  
1,2-Benzisothiazol-3(2H)-one 2682-20-4 7664-41-7, Ammonia,  
miscellaneous 15102-42-8 25265-77-4, Texanol 26172-55-4  
55406-53-6 147172-32-5, Lusolvan FBH  
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(occupational exposure to water-based paints contg., health effects of)

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